



TO THE HIGH AND MIGHTY CHARLES, ONLY

SONNE OF HIS MAIESTY, PRINCE OF Wales, DVKE of Cornewall, Yorke, and Albany, MAR-QVISE of Ormont, EARLE of Chefter, and Roß,
Load of Admanach, and KNICH Tofthe



Ow much the Gracians excelled all other Nations in the Sciences called Liberall, is better knowne in generall, then needfull at this time particularly to be rehearfed to your Highneffe. The Romans themselves albeit otherwise ambitious, and out of meafure thirsty of honour, and challen-

ging to themselues the highest degree of grauity, constancie, greatnesse of minde, wisedome, faith, and skill of war, contended not herein, but freely lest them the possession of that praise vinquestioned. For warre it is not my purpose at this time to make comparison, or commit the two Nations together. The controuersie is already moued by other, and hangeth vindecided in the Court of learning. Thus much, me thinks, I may truly affirme, that the Graenius were the first, that out of variety of actions, and long experience reduced the knowledge of Armes into an Arte, and gaue precepts for the orderly mouing a Battaile, and taught, that the moments of victory rested not in the hands

hands of multitudes, but in a few men rightly instructed to manage armes, and trained vp in the observation of the discipline of the field. In which regard they had almost in all Cities amongst them Masters of Armes, whom they called Tatticks, which delivered the Arte Military to such, as were defirous to learne. Out of whose Schooles issued those chiefs of warre in number so many, in skill so exquifite, in valor so peerelesse, in all vertues beseeming great Generals so admirable, that no Nation of Europe euen to this day hath been able to match, much lesse to ouer-match their fame, and glory. And the time was when the Lacedemonians exceeded the rest in Martiall skill, and were thought to be the best Souldiers of Greece; by meanes whereof they advanced themselves to the Principality of Greece, which they held with fuch reputation, that an enemie by the space of 500 yeares was not seene within their Territory. Till at last growing insolent, and surfeiting of, and being not able to brooke their owne fortune, they fought to oppresse, and with wrong and force to possesse the City of Thebes, and stirred vp Epaminondas a Theban by birth, and from his tender yeares nourished by his fathers care in the study of Philosophy, and the science of Armes, to oppose against them, who in two battailes, the one at Leuttra, the other at Mantinea so broke their forces, that from that day forth they were neuerable to recouer their wonted authority, and power in the field. Philip the sonne of Amyntas King of Macedonia, being but a private man, was deliuered as a hostage to the Thebans, & brought vp in the same house and learning with Epaminondas. He afterward became King of Macedonia; which being of it felfe but a poorekingdome, and before his time sometimes kept under by the Athenians, sometimes by the Lacedemonians, sometimes by the Thebans, & finding it at his entrance

to the Crowne harried, and spoiled by the Paonians, and forced to pay tribute by the flyrians, by erecting a new arte, and discipline of warre, to which he exercised, and enured his Macedonians, he not only freed his Countrey from the Barbarous nations, but also ouercame the Gracians, accounted the only Masters of armes till that day, and caused himselfe to be declared Generall of Greece against the Persians: against whom after he had made his full preparation, he refolued to go in person. But being preuented by death, he left the succession of his kingdom, and execution of his designes to Alexander his sonne, whom he had before curiously instructed in the discipline of Armes invented by himselfe. The same Alexander (being about 20 yeares of age) after he had vanquished Darius in 2 great battailes in 12 yeeres ran through, and subjected the spacious, rich, and flourishing kingdomes of Asia, even as far, as the East Indies, and with terror of armes made the whole world to tremble at his name. His kingdomes were after his death divided amongst many Successors, who by the same Arte military easily maintained the possession of their conquests. This Arte is it, that I at this time present vnto your Highnesse. It was comprised in writing by many, and yet none of their works attained our age, but only that of Ælian, who hath in a small volume so expressed the arte, that nothing is more short, no thing more linked together in-coherence of precepts, and yet distinguished with such variety, that all motions requifite, or to be vsed in a Battaile are fully expressed therin. Aelian lived in the time of Adrian the Emperor. How much the booke was of ancient time efteemed may appeare by this alone, that Leo a succeeding Emperor setting downe Martiall instructions for the government of his Empire, transcribeth whole passages out of Ælian, & whensoeuer he citeth, or nameth the Tallicks, he giveth still the first place vnto Elian. Howbeit

to

Howbeit the practise of Aelians precepts hath long lien wrapped vp in darknes, & buried (as it were) in the ruines of time, vntill it was reuiued, & restored to light not long since in the vnited Prouinces of the low-Countries, which Countries at this day are the Schoole of war, whither the most Martiall spirits of Europe resort to lay downe the Apprentiship of their seruice in Armes, and it was reuiued by the direction of that Heroicall Prince Maurice of Nassau, Prince of O. range, Gouernour, and Generall of the said Countries, a Prince borne and bred up in Armes, and (beside the completenes of his other eminent vertues) for skill, experience, judgement, and military literature comparable to the greatest Generals, that euer were. I have of late adventured to take from Ælian his Greekish cloake, and to put him in English apparell, that in that habit he might attend your Highnesse, and be ready with his feruice, in case he were thought worthy of employment. He had before for his Patron Adrian, an Emperor, and Ruler of the Roman world. Now he humbly craueth your HIGHNESS E fauour for his protection, who as in Princely descent, and succession of Royall blood you are farre superior, so in vertues worthy of your birth, and yeares, and in all hopefull expectations are you nothing inferior to Adrian. It may please your Highnesse to regard him with a gratious eye, and to esteeme the Presentor of him your faithfull bedefman, that will not ceafe to pray to the mighty God of hosts, to give you conquest over all your enemies. From my Garrison at Woudrichem in Holland the 20 of September 1616.

Your Highnesse most humbly deuoted,

Io: BINGHAM.



THE TACTICKS OF ÆLIAN.
or art of embattailing an army after the
Grecian manner.



HE Grecian arte of embattailing an army (most mightie Augustus Cesar Adrian) the antiquitie whereof reacheth back to the age wherein Homer lyved, hath beene committed to wryting by many, whose skill in the Mathematicks was not reputed equal with

myne: whereby I was induced to thinke it possible for me foe to deliver the groundes therof, that possible for me foe to deliver the groundes therof, that possible for me foe to deliver the groundes therof, that possible for me for the many state of the fame argument. But weighing againe myn own ignorance (for I must confesse a truth) in that skill & practise of armes, which is now in esteeme among the Romaines, I was by feare with-held from reviving a science half dead, as it were, and since the invention of that other by your auncestors, altogeather out of request and vnregarded. Notwithstanding comming afterward to Fornie to doe my dutie to the 'Emperour Nerva your maiesties father, It was my fortune to spend sometime with 'Frontine a man of Consular dignitie, and of great reputation by reason of his experience

in militarie affaires : and after conference with him perceiving he imparted no leffe studie to the Grecian, then to the Romaine discipine of armes I began not to despise that of the Grecians, conceiving that Frontine would not fo much affect it, if hee thought it inferiour to the Romaine. Having therefore in times past framed a project of this worke, but yet not daring then to publish it in regard of , your majesties in comparable valour, and experience, which make you famous aboue all Generalls without exception, that euer were: I have of late taken it againe in hand, & finished it, being (if I deceaue not my felf) a worke both worthy to be accompted of, & of sufficiencie, especially with such as are studious of the arte, to obscure the credit of the auncient Tacticks. For in respect of the perspicuitie I dare bouldlie affirme, the reader shall more advantage himselse by this little volume, then by al their writings: fuch is the order and methode, I have followed. Howbeit I durft scarcely offer it to your majestie who have beene Generall of so greate warres, least happily it proue too flender a present, & altogether vnworthy of your facred viewe. And yet if your majestie shall bee pleased to thinke of it, as of a Greekish Theorie, or a various discourse it may bee, it will give vou some little delight, the rather because you may therin behold 4 Alexander the Macedons manner of marshalling his fields. And for that I am not ignorant of your majesties more weightie affaires, I haue reparted it into chapters, to the end you may without reading the booke in few wordes take the fomme of that, which is to bee delivered, and without losse of time find the places you are desirous to peruse.

The Tacticks] As Taxis in a general fence fignifieth order, so Tacticos is as much, as pertegning to order: but specially taken, it signifieth partegning to order of a battaile, or to the embattailing of an army. Hereof the arte of embattailing an army is called Tactice, and hee, that is skillful, and experienced in that arte. Tacticos (Vegetius na. 1 Vege. 9 meth him magistrum armorum) and the books written of the arte, Tactica. Ind that this is the true signification of the word may appeare by Xenophons Cyropadia, where the arte Tactick is distinguished from the arte Imperatory, or arte of a Generall. Hee induceth Cyrus, in a discourse with his sather speaking thus. In the end you asked b xcooph, eymee what my master taught mee, when hee professed to teach the art Imperatory. And when I answered, the Tacticks, you smiled, and asked particulerly, what the Tacticks availed without provision of thinges necessary to live by what without preservacion of health? what without knowledge of arts invented for the vie of warre? what without obedience? fo that you plainely shewed, that the Tacticks are but a small portion of the arte Imperatory or of commanding an army. Thus Xenophon: making a difference between the arte Impe-Tatory, of the arte Tactick. And in other place hee speaketh yet more particularly: Cy- c xenophon cyrus, fand hee, esteemed it not the duty of a Tactick to enlarge onely, or to ftretch out in length the front of his Philange, or to drawe it out in depth, or to reduce it from a winge to a Phalange, or to countermarche readily, the enemy shewing himselfe on the right, or left hand, or in the rear, but to divide it, when need is, & to place enery part for most advantage, & to leade it on speedily, when occasion is of prevention. Tet sometimes in a generall signification books entreating of the whole arte of warr are called Tacticks: as the Constitutions military of the Emperour Leo are entituled Tactica Leonis, perhaps of the best parte, because the arte of embattailing an army hath alwayes been esteemed the chiefest point of skill in a Plucia Philo 4 Generall. Howbest Alian in his title of this booke taketh Tactice in the streighter e infracap. signification: as appeareth by the definitions, he alleageth out of Anaas and Polibius: of whome the first defineth the art Tactick to bee a science of warlick motion; with whome also i Leo agreeth: the other, to bee a skill, whereby, a man taking a multi-f tude ferviceable, ordereth it into files, and bodies, and inftructeth it fufficiently in all thinges apperteining to warre. Which two definitions comprehend in fewe words the argument of the whole booke. For first Alian intreateth of levieng, er of arming men, then of filing, next of joyning files, and making bodies, after of ordering the whole Phalange, or battaile, further of motions requisit to affront the enemy, wher foever he giveth on, whether in front, flank, or reare; laftly of marching, and of the Condry formes of battailes carieng with them advantage of charging or repulling the enemy in your marche. He; that will further understand the boundes of this arte let him reade in the 21 .chapter of Leo the 58 . fection.

I The Emperour Nerva your maiesties Father 7 The Emperour Nerva here mentioned was not Nerva Cocceius, whoe succeeded Domitian, but Vlpius Traianus, who was also called Nerva, because he was adopted by Nerva Cocceius & succeeded in the Empire. And where Elian termeth him Adrians father, indeed Adrian pretended, he was Traians sonne by adoption. But & Dio plainely denieth it, & Spartian faith, some repor- g Dio & South ted hee was adopted by the faction of Plotina (Traians wife) by substituting harmin one to speake with a faint voice, as if it had beene Traian vpon his death-bed, whereas Traian was before departed this world. This is agreed, that he was Cosin

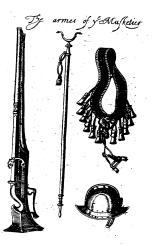
Notes.

grman once removed to Traian, & that his father dieng, he (being but ten yeares olde) was ward to Traian (then a private man) and to one Calius Tatianus.

2 To fpend fome time with Frontine | Frontine beer mentioned was the same that wrote the book of Strategemes, now extant, or commonly loyned in one volume with Vegetius. Hee was a man curious in the searche of the Gracian discipline, as may be seene by his owne preface to his bookes of Strategemes: & by the testimony of Alian, & in the first chapter of this treatise, is reckoned amongest the Tactick writers. * Vegetius reporteth he was much esteemed by the Emperour Traian. Hee lived also in greate reputation in the time of Vespasian: at least if it bee hee, that Tacitus speaketh of in the life of Iulius Agricola. And yet it might bee he very well, there being noe more then twenty yeares, & certaine monthes betwixte the reigns of Traian, of the reigns of Velpasian in whose time b Tacit. in vita Frontine is reported by Tacitus to have overthrowne the Silures in Britaine. Acitan in the next chapter calleth him Fronto. Of one Fronto, that was Consulin the third year of the reign cof Traian , I read in Dio. who (e faying is reported to have been: That it was ill to haue an Emperour, vnder whomenoe man might haue liberty to doe any thing, but much worse to haue an Emperour, vnder whome every man might doe what hee lift. But this Fronto was not Elians Fronto. Hee was called Marcus Cornelius Fronto; this (that Elian Speaketh of) Iulius Frontine And yet it is not wonder that Frontine in latine should be called Fronto in Greek, it being voual for the Gracians to varie, and deflect a litle from the property of the latine names.

c Dio in vita

Your majesties incomparable valor & experience] That this praise given Adrian u not altogether without cause, may appeare by that which & Elius Spartianus writeth in the life of Adria. His wordes have this meaning. After this, taking his journey into France, he was bowntifull to all, as he sawe cause. From thence hee passed into Germany, & being rather desirous of peace, then warre, yet hee so exercised his souldiers, as though warre were at hand; teaching them to indure paines & hardnesse, himselfe giving an example of military life: gladly alfo vfing Camp fare, as namely lard, & cheefe, for meate, & water mingled with vineger for drink, in imitation of Scipio Æmilianus, & of Metellus, & of Traian the author of his preferment & rifing, bestowing rewardes vpon many, honors vpon some, to encourage them to beare such things, as seemed harshe in his commaundes. And furely it was hee next Octavius, that vpheld military discipline (declyning nowe through the remissenesse of former Emperous) by ordering both the places of Commaunde, & the payes, never fuffering any man to absent himselfe from the Campe, butvpon just cause: measuring the worthe of Tribunes not by favour of the fouldiers, but by their owne defert; exhorting, & exciting all the rest by example of his owne vertue, whilest hee often marched twenty miles on foote, being fully armed, broke downe banquetting howses, and galleries, &vaults for coolenesse, & arbors, wheresoever hee found them in the Campe, & was seene in a plaine garment vsually; wore a baudricke not gamished with gold, buttons without gemmes; scarcely allowing an ivory handle to his fword; vifited his fick fouldiers in their lodgings, himselfe chose out the grownd to encampe in: made noe Captaine, but a man of a strong body, noe Tribune, but with a growne beard, or of age, that by prudence, and yeares was able to fway the weight of the place: nor fuffred him to take ought from the fouldier; removed all delicacies; and lastly reformed their earmes, and baggage. Hee had befides consideration of the age of fouldiers, allowing none younger, then was befitting vertue; nor elder, then stood with the lawes of humanity, to bee conversant in the Campe.con-



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trary to old custome, and vsage: and gaue himselfe to haue particular knowledge of them all, and what their number was. Furthermore he was carefull to understand the controuersies betwist fouldier and souldier, and searched with great attentiuens selfein the revenues of the Provinces, to the end to supply, what was wanting; endevouring notwithstanding aboue all neither to buy, nor seede ought, that was not for vsc. Wherefore when he had salfainoned his souldiers to his owne example, he passed over into Britaine, where he corrected many things, and was the first that drew a wall along by the space of eighty mile; wherewith he duided the Romans from the barbarous people. Substitute Spartian. I have recited the historie at large, because I might represent the picture of an excellent General.

4. Alexander the Macedons manner.] That this booke comprehended the Macedonian discipline of armes, I will show hereafter, as particulars offer themselves. In the meane time let this suffice for an argument, that Elian aeabtethnost to affirme it to Adrian, a Prince excellently learned is the Greek language; and as breason of skill he was able to discerne, so by his authoritie he would have excluded.

So grosse an escape, if it had beene oth rwise, than

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g'ri was 2 that Veri

Vege by h. legat lib. 2- first . teth !

> in th Agri: certe;

b Tacit. in vita Fron.
Agricola.

then
c Dio in v.ta there

c Dio in via there ill to ny i mig)

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d Spertian,in Vita Adriant,

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The

The Tadicks of Ælian.



The Authors that have written Tacticks; of this booke, and of the profit of the Arte.

CHAP. I.



Omer the Poerseemeth to be the first, (at least we read of) that had the skill of imbattailing an Army, and that admired men indued with that knowledge; as appeareth by Mnesthem of whom he writeth,

> His like no living wight was found nor any age did yeild, To marshall Troopes of horse, or bands of foote in bloudy field.

Concerning Homers discipline militarie, the workes of Stratocles, and of 1 Frontine a man of Confular dignitie in our time are to be read. Aneas perfected the Theorie thereof at large publishing many volumes of warfare, which were abridged by 3 Cyneas the Thessalian. Likewise 4 Pyrrhus the Epirote wrote Tacticks, and his sonne & Alexander, and Clearchus, and Pausanias, and Euangelus, and Polybius the Megapolitan (a man of great learning, Scipioes companion) and Eupolemus, and 3 Iphicrates; 9 Posidonius alfo the Stoick fet forth the art of warre, and many other, some in Introductions, as Brion, some in large Tactick volumes. All which, I have feene, and read, and yet thinke it not much to purpose to mention particularly; being not ignorant, that it hath beene the manner of those writers for the most part, to apply their stile not to the ignorant, but to such as are already acquainted with the matters they intreat of. As for the impediments, which presented themselues to me, when I first gaue my minde to the studie of this Art, as namely neither to happen vpon sufficient Instructors, nor yet to find light, or perspicuitieenough in the precepts delivered; I will endeuour, as much as I can, to remoue out of other mens way: And as often as words shall faile to expresse my meaning, I will for plainenesse sake, vse the direction of figures, and pourtraicts, adioyning thereby the view of the eye, as an aide, and affiftance, to the underflanding, and withall reteine the termes of auncient Authors, to the end, that whosoever shall follow this booke for an introduction, being therein exercised both to the same words; and also to the vsage of things expressed in them, may grow as it were acquainted, and imagine himselfe nostranger, when he commeth to read their workes. By which waies by me prescribed, I make no doubt, they will eafily be understood. Now that this Art of all other is of most vie, may appeare by Plato in his booke of Lawes, where he faith: That the Cretan Lawgiver so contrived his Lawes, as if men were alway prapared to fight. For all Cities have by nature unproclaimed warre one against another. Which being so: what discipline is more to be esteemed, or more avaylable to mans life, then this of warre? Notes.

Notes,

T seemeth by this Chapter, that the Authors, that have of auncient time written Ta-1 sticks, have beene many: and those not of such kinde of men, as have given themselves to study, and contemplation alone, but of such, as besides their knowledge in good letters. have beene actors in warre them elues of (which is more) principall actors, some of them Generalls, other the next degree to Generalls. Howbeit there is none here mentioned by Elian, whose workes are extant. Whereby may be esteemed the inestimable losse, these later ages have suffred in being deprived of such excellent monuments. I hope, I may so terme them without offence, though I have not seene them. For what but excellen; can proceed from men of such excellencie in their profession? such as the most part of those were. Tet for some of them I can say nothing, as finding little remembrance of them in ancient writers. Of this kind are Eupolemus, Stratocles, Hermias, Clearchus, Paulanias : albeit (uch names may often be found : The rest are specially mentioned, and much commended. Of whom I will fet downe, what I finde.

I Frontinea man of Consular dignity] Thane before noted somewhat of Frontine. We have of his as it is thought, other workes besides his stratagemes : but this booke of Tacticks, whereof Elian Speaketh, we have not. I will onely adde the relation of a Veget.lib. 2. 2 Vegetius touching Frontine, who writeth thus: Cato the elder, albeit he had beene both invincible in armes, and often Generall of great Armies, beleeued yet he should more profit his Countrey, if he laid downe in writing the discipline of warre. For valiant acts are but of one mans age, but things written for the profit of the State endure for euer. Many other haue done the like, but especially Frontine; whose industry herein was greatly approved by the Emperour Traian.

b Polyblib.to 2 Encas perfected the Theory.] Aneas is mentioned by b Polybius in his tenth booke, where he discourseth of signes to be made by beacons of fire in case an enemy approacheth to any part of our Countrey. His bookes were intituled, Commentaries of the office of a Generall, as Polybius faith; and Elian here calleth them, Bookes of the office of a Generall, the title being all one in effect. Of these bookes none have reached to our age, but one alone, which comprises precepts of defending a Towne besieged, and some 5 or 6 yeares agoe came first to light, and print: that worthy man Isaac Casaubon, the learned ornament of his Countrey, (and of England so long, as he lived there) being the letter forth. And it is adjounded to his edition of Polybius. These bookes Tactick of Anaas were abridged (as Elian (aith) by

e Plutarch in

3 Cyneas the Theffalian] Plutarchin the life of Pyrrhus telleth vs what Cyneas was. 'There was, faith he, in the Court of Pyrrhus a Thessalian, a man of great vnderstanding: and who having heard the Orator Demosthenes, seemed alone of all, that then were esteemed eloquent, to renew in the memory of the hearers an image and shadow of the vehemencie and vigor of his veterance. Pyrrhus held him in his Court, and madevle of him, in fending him in embaffages to people and Cities. In which embaffages hee confirmed the faying of Euripides.

> What ever force can doe, with trenchant (words; The fame, or more, is wrought by pleafing words.

Therefore was Pyrthus wont to fay, that Cyneas had gained more Cities with his eloquence, then himselse with armes. By occasion whereof hee did

him great honor, & employed him in his principal affaires, Tully (beaketh of his workes: your letters, (faith he to Papyrius Pætus) haue made me a great Gene- a Ciero, spith rall: I was altogether ignorant of your to great skill in military matters. I fee epidolis. you have read the books of Pyrrhus & Cynzas, I therefore purpose to follow your counfel; this yet more, to have fome fewe shippes in a readinesse vpo the fea-coast. They say, there is noe better armour against Parthian horsemen. But why fport wee? you knowe not, with what a Generall you haue to doe. I haue in this my governement fully in practife expressed Xenophons institution of Cyrus: which before I had worne a pieces with reading. Pyrrhus & Cyneas, hee nameth, is two principall Authors of warlick discipline: And where he addeth Xenophon, whose though he be not named by Æljan amongest the Tactick writers, descrueth yet not to be pretermitted, having been both a great Comaunder, & besides writte largely of military matters, whose workes also are now extat let us see what he saith of him in another place. Cyrus, faith he, is written by Xenophon, not according to the truthe of b spile ! al an history, but for a patterne of just governement. Whose wondrous grauity is by that Philosopher matched with finguler Curtefie, which bookes our Africanus, (and that not without cause) was never wont to let goe out of his handes And of Africanus he reporteth the like in his Tusculan quæstions.

4 Pyrrhus the Epriote wrote Tacticks. Pyrrhus the K. of Epirus was of aunci.nt time esteemed one of the best Generalls, that ever w.is. What a Anniballs indgement a Live decad .. was of him Liuy reporteth, & Plutarch in the life of Pyrrhus. And Antigonus being de-ePun Pyrtho. maunded, whom hee thought the greatest generall, then living, aunswered Pyrrhus. And where other Kings imitated Alexander the great in purple apparaile in number of gardes about theire persons, in carieng the necke a litleawry, & in speaking lowde, hee alone repræsented him in exploictes of armes, & in deedes of Frowes, faith Plutarch. Plutarch faith likewife: Towching his skill in the arte porta 1 ditary howe to order a battaile, and howe to bring his men to fighte with most advantage, a man may draw proofe sufficient out of the books, he wrote;

of which bookes Tully spake in the last paragraph. And his sonne Alexander.] Pyrrhus had by his first wife Antigone a sonne called Ptolomes, by Lanassa, another called Alexander, & by Bircanna, the third named Helenus. 8 All which albeit by race & inclination of nature they were Martial, 8 Plotarch, in yet brought he them vp,& from theire birth framed & enured to armes. And the report is, when upon a time one of them, yet a chylde, asked him, to which of them he would leave his kingdome, to him, aunfwered Pyrrhus, who shall haue he sharpest sworde: h Iustin also makes mention of these three sonnes. Ptolomey h tolk lib .e, was Jame at Sparta, as Iustin would have it. Plutarch faith he was staine in the way be- i Lib is, se-.D twixt Sparta of Argos. Alexander reigned after his fathers decease in the Realme of E. tho. pirus. That hee wrote Tacticks, I have not read, but in Alian onely.

6 And Evangelus | Plutarch discoursing of the studies of Philopamen hath this Dipnoscephilo s. in effect. THe tooke noe delight to heare al kinde of discourses, nor to reade al me Pluraren in books of Philosophy, but such onely, as might profit to the daylic encrease of Philosophy. vertue, And hee read not willingly other passages of Homer, then such, as hee thought had some efficacy to moue a mans hart to prowes. But amongest, and about al other readings, he specially affected the Tacticks of Euangelus: & like wise the histories of the exploits of Alexader the great. This is all find of the Ta-

Eticks of Evangelus I geffe notwithstanding, he was a choice author because Philopamen had him in luch feeme; of whome the fame " Plutarch writeth: That Greece " 16id, bore him finguler affection, as the last vertuous man, which shee brought

The preparation of warlicke forces and division of them,

and how they are armed.

CHAP. II.

T will then beginne with fuch preparations as are absolutely necessary for

I fervice in warre, the forces whereof are of two fortes, the one Landforces,

the other ship forces. Land forces are such, as fight on land: Ship forces

fuch, as are ordered for fight in shippes vppon Sea, or Rivers. But the or-

der of Sea fervice I will referue for another place, and intreat now of things

pertayning to Land fervice. The levies then for land fervice are either of

foorth in her ould age, after so many great, and renowmed Captaines of auncient time; and alwayes augmented his power, and authority, as his glory encreafed. In which respect a Roman, praising him, called him the last Gracian; meaning that after him Greece bred noe great, nor any personage in deed worthy of her,

The Tacticks

7 And Polybius] It is the same Polybius, whose History, so much as is extant, that excellent learned man I faac Cafaubon translated into Latin, and fet foorth 1000. For his life and worth refurt to the preface of the Same Casaubon to Polybius his history. Hee had beene in Achaia, his owne countrey, Generall of the horse. Afterward being in displeasure with the Romans, hee lived long in pri-(on at Rome : and was for his worth finally released by intercession of the oreatest men of Rome : and became companion to Scipio Africanus the younger; with whom also he was at the siege and destruction of Carthage. His Tacticks, whereof Alian (peaketh, are perished with other of his workes. Yet are there many passages disbersed heer. and there in his history, which argue his extraordinary skill in matters of warre. And it may seeme, that Alian hath taken much from him both for matter, and wordes.

587. B.c. Dred ficul lib. 15

8 Iphicrates] Whoe will reade of Iphicrates, let him goe to 2 Amilius Probus, crais. Kenoph, that writeth his life. His actes are also declared by Xenophon, and Diodorus Siculus, and Polyan, and Iustin and divers others, as they were incident to their generall historics. Hee was esteemed one of the best Generalls of his time : and was called out arg, histories. He was esteemed one of the best Generalls of his time: and was called out Polyan libe, in by name by Darius King of Persia to be generall of the Gracians, his mercenaries, in Institution 631 the warre, hee had against the Agyptians: His fame and astimation was soe great with Alexander the great, that when his sonne (whose name was also Iphicrates) with other Gracians were taken prisoners by him, for that they came embassadours into Persia to Darius, he not onely pared him for the love of the City of Athens, and for the remembrance of his fathers glory (bethe wordes of Arrian) but held him about him in honour folong, as hee lived, and after his decease fent his reliques to Athens, there to

be interred by his friendes, and kinffolk.

9 Posidonius the Stoick Posidonius in his time was a Philosopher of high renowne, and of the lect, that were called Stoicks. Tully citeth him often in his workes. co lib. 2.146. In the second booke of Tuscular quastions heerecounteth, that Pompey the great on a time comminge to Rhodes, was desirous to heare him. But vnderstanding hee was extreamefick of the goute, hee forbore not notwithstanding to visit him being a most noble philosopher : whome after hee had seene, and saluted, and vsed with honorable wordes, and told him, hee was fory, hee could not heare him discourse, you may, if you please, quoth Posidonius: and I will not suffer paine to bee cause, that so great a man seeke mee in vaine. Then, as hee lay in his bed, began hee gravely, and copiously, to dispute, that nothing was good, but that, which was honest. And when firebrands, as it were, of torment towched him to the quick amiddest his disputation, he broke foorth often into these wordes: Sorow, all this is nothing: Though thou trouble me ned Plin named, ver somuch, I will not yet confesse, that thou art of thy self evill. So Tully . 4 Pliny likewife telleth, that Pompey, after the warre of Mithridates, going into the howse of Posidonius, a man samous in Philosophy, forbid his serieant to knock at the doore(as the manner was,) and the fericants bundles of roddes(faith he) were fubmitted to a doore by him, to whom East & West had submitted theselues. e Cierro, de na. The same e Tully attributeth to this Posidonius the invention of a Sphere, whose particuler conversions did worke the same in sonne & moone, and the other fine planets, that is wrought by the motion of heaven every day and night.

those, that fight, and mannage Armes, or else of those that fight not, but remaine in the campe for necessary wees. They fight that stand ordered in battaile, and with armes [affaile or] repulse the enemy. The rest fight not, as Phifitians, merchants, fervants, and other, which follow the campe to minister vnto it. Such as fight, are either footemen, or Riders : footemen properly, that ferue on foote. Of Riders, some vie Horses some Elephants. They, that vie Horses, are carved either one Horse-back, or else in Chariotts. And

thefe are the differences in generall. But in speciall the foote, and Horfe receaue many other divisions; onely the Elephants, and Chariotts, never varie. Footemen then are reparted into three kindes, one being Armed, another Targettiers, the third light, or naked. . The Armed beare the heaviest furniture of all footemen; vsing according to the Macedonian manner large, round, Targetts, and Ionge Pikes: 5 The Light contrarywise beare the lightest, having neither Curace, nor Greue, nor longe, or round Targett

of any weight, but ' flieng weapons onelie as 7 Arrowes, 8 Dartes, 9 Stones either for hand, or sling. To this kind is referred the " armour of the Argilos , who hath his furniture like to the Macedonian , but fome thing lighter. For hee carieth " a little flight Torgett, 12 and his Pike is much shorter, then the Macedonian Pike : which manner of arming see-

meth a meane betwixt the light, or naked, and that which is properlie called heavie: as being lighter, then the heavie, and heavier, then the light: and that is the cause, that many place it amongst the light.

The forces of Horse (which wee distinguished before from Chariotts) as being ordered in Troopes, are either ' Cataphracts, or not Cataphracts. They are Cataphracts, that cover their cowne, and theire horses bodies all over with armour. Of not Cataphraits, some are Launciers, some Acrobolists. Launciers are fuch as joyne with the enemy, and fight hand to hand with the Launce on horseback. Of these, some beare longe Targets, and are therevppon called Targetiers: Other fome Launces alone without Targets, who are properlie called 's Launciers, and of some Xeftophori. 's Acrobolists on horseback are luch as fight a far of with flieng weapons. Of these, some vse darts, some bowes. They vie darts, whome wee call '? Tarentines. Of Tarentines, there are two fortes; for fome throw little 18 duris a farre of, and are termed Darters on horseback, but properlie Tarentines, others vie light darts, & 19 after they haue ipent one, or two, close prefently with the enemy like the Lanciers, which

wee spake of, and fight hand to hand. These in common speech are named light horsemen. So that of Tarentines some are properly called Tarentines. whose manner is to darte a far of. Some light horsemen, who joyne, and fight hand to hand. 20 The horsemen that vse bowes are termed Archers on Horse. back, and of some Scythians.

These then are the differences of such as are in the Campe, the kinds of Souldiers being in nomber nyne: Of footmen, armed, Targetiers, Light armed, or naked : Of horsemen Lanciers, Darters, Archers, Cataphracts : And lastlic Chariots, and Elephants.

Notes.

TN this Chapter the kindes of Souldiers are distinguished according to theire Several Larmes borne in fight. And therefore of foote some are called armed, because they beare heavy armes; other light-armed or naked, because they weare no defensive armes, other some Targetiers, because theire chief defence rested in a slight target, wherewith they covered theire bodies. The horse also have theire appellation, as theire armes are. And some are Cataphracts, because themselves & horses were armed compleatly other Launciers , for that they vied a launce : other some Acrobolists , by reason they fought with flieng weapons a farreoj. The first thoughts of a Prince, or State, that is refolved to put an army into the field, ought to be to provide armes. Armes are the fecurity of theire own souldiers, the terror of the ennemy, the assured ordinary meanes of victory. The antiquity of armes is all one with the beginning of warre. For when of aun. cient time mighty men puffed up with pride, and led by ambition, sought by violence to enlarge their empire, and to bring under subjection their bordering neighboures, they were enforced to flye to the invention of armes, without which noe victory could bee obterned. Since, armes have been taken up for defence also, necessity, the mother of artes, inventing ameanes to withstand ambition. As Antalcidas wel obietted to Agesilaus being wounded by the Thebans; you are well rewarded for your labour. quoth hee, fince you would needes teache the Thebans to fight, that had neither will, nor skill so to doe. For the Thebans being put to necessity of de. fence grewe warlick through many invafions of the Lacedemonians, faith a Pinarchia A = Plutarch. Whoe were the inventers of the seueral pieces of armour, and of the diners kindes of weapons vsed in old tyme, may appeare by the relation of b Pliny in his natural history. This is certeyne, that the most warlick nations, and most victorious have alwayes sought to have advantage of their enemies by advantage of armes. The end of armes is either to defend, or asfault. Hence are armes divided into two kindes : Defensive, and Offensive. Defensive are those, which are worne to relist the force, and charge of the enemy. Of this fort are the head piece, gorget, curace, vambrace, gant. lets, tales, greves, and target. For whereas there are eleven partes in man, the woundes of any of which bring with the undoubted death (as some authors write) the braines, the two temples, the throate, the breaft, the belly, the two muscles above the two elbowes, the other two about the knees, o the privy members pierced with a thrust: the headpiece ferveth for the defence of the braine, and temples, the gorget for the throate, the curace for the breast, the vambrace for the muscles of the armes, the tales for the privities & belly, the greves for the muscles about the knees, and the target for further affurance of the whole body, being moueable against all strokes, and profers of the affailants. Offensive armes are such, as men endevour to wound, or kill wishall : as flieng weapons of all kindes , arrowes, stones out of slings , or the hand,

fword s, pikes, partizans, javelines, and the like. But as defence, and security of a mans feif is more agreable to nature, then to hurt an enemy, fo are the defensive armes a Plain preferred before the offensive, in that they bring fafety to him, that beareth them, where as the other are imployed in annoing the enemy onely. The Poets fest foorth their bravest and valiantest men alwayes best armed for defence. So Achilles in Homer, and Aneas in Virgil, are armed to point with armes wrought by Vulcan, to the end toremaine untowched amiddest the stormes of theire enemies weapons. The Gracian Lawgivers punished that souldier, that in fight cast away his target : not him, that lost his Sword or pike. Plutarch writeth, that at such time as Epaminondas assaulted Spar- Acciaco. ta (the most warlicke City of Greece) there was in the City a Spartan named Isadas, who was the some of Phabidas, hee that surprised the Castle of Thebes called Cadmaa, and thereby stirred up the warre between the Thebans, and Lacedamonians, & ruinated the principality of the Lacedamonians in Greece. This man being in the flower of his age, and personable, and large of lymmes, ranne foorth of his howse all naked, his body annointed with oyle, without apparaile or armes, except a (word in one hand, & a lavelin in the other; and breaking through the throng of those, that fought on his side, came to handes with the enemy, and overthrowing some, and killing other some, continued the fight, till the enemy was repulsed, and at last returned into the City without wounde. The chief magistrate understanding hereof rewarded him with a Crowne for his valor. but yet fined him at a hundred drachmes, for that he durst veter to fight without armes Drachmes defensive; judging it a matter almost impossible, that a naked man should escape with life this is of In armes was required, that they |hould bee ftrong, that they |hould bee fitte, that cape ass.

they should bee comely; strong to protect, or annoy, fitt to sette close to the body and bee manageable, comely to grace him, that beareth them. That defensive armes ought to be strong, may bee shewed by the end of armes : which is to faue harmlesse against arrowes, dartes, and other offensive armes of the enemy. If they faile of this end, they are of noe vse ; it being better to be vnarmed, then cary armes, that will not defend. Without armes you have the body free, and at liberty: carrieng armes, though never so light, they must bee a cumber to you, and some what hinder the motion of our body. Armes therefore ought to bee sufficient to resist the weapons of the enemy. The inconvenience of defective and weake armes is well noted by Vegetius. From the building of the C1- e vegetius ty of Rome, faith hee, till the time of the Emperour Gratian, the foote armed Agriculture ty of Rome, faith hee, thi the time of the Emperour Statish, the foot a fine a sensitive their bodies with Cataphrackes, and head-pieces. But when field exercife the sense of the third bodies with Cataphrackes, and head-pieces, armour began to growe hea, the ough negligence and flouth was given over, armour began to growe hea. vy, because it was fieldome put on. They made suite therefore to the Empe-what the rour first, that they might leaue of their Cataphractes, then, their headpieces. So our fouldiers encountring with the Gothes, were oftentimes wholy defeated and flaine by the multitude of their eartowes. And a litle after : fo cometh it to passe, faith he, that they, whoe without armes, are exposed in the battaile to woundes, thinke not so much of fight, as of running away. Tet must wee not imagine, that those fouldiers fought in theire ordinary apparaile onely: 1 encline rather to the opinion of Stewechius, whoe holdeth, that they tooke themselves to & steweching theire military coates, called in Notitia vtraque, Thoracomachi: and to theire Noting v Targets; This Thoracomachus was a garment invented long before Gratians time, and Occident in worne under the armours of the fouldiers, and was a kind of felt, but being noe profe against arrowes, and theire targets not sufficient to cover their heads, and whole bodies from arrowes, They were obnoxius to the shotte of the Gothes, and received those overthrowes Vegetius (peaketh of.

The

The matter whereof frong armes were made, I find to bee divers. Some were forged of security of Steele: as the armour of Goliath, and the head-piece of K. Saul. For it is not there lette downe, what his curacewas of, Notwithstanding it is likely, it was of the same matter, of which his headpiece was made. Whe I fay these armours were of Steele, I follow therin the indgement of Tremelius and Innius, whoe fo translate it; & with them also agrees h Vatub.us. For the old :rastation bath, that they were of brasse: I have not elsewhere read of fleele armour. And it may bee, shat the old translation had an everyon the wage of auncient time, wherin the matter of armes was principally of Braile. Homer reporteth that Homer Biad, the armour of Diomedes was of braffe: & Paufanias, that all the Heroes (that is the b Paulan. in la- aunciet worthies about the time of the flege of Troy bad their armour of Braffe. Alcaus energy of the Peet in distribing his armory saith, therest of his armes were of brase, as his head-spilling day A pieces, his greves, his Targets, only his Curaces were of linen. Paus saitus reported at so that the sword of Merenon was of brase, of the head of the speare of Achilles, of Pisane Livy to 1,27 ders axe, & the head of Meriones his shafte. Servius Tullius in sessing the City of Rome, appointed the chiefest & richest Citzzens to arme themselves with headpieces, grewes, Cus Nero in Rec. race, & buckler alof braffe. The targets of the Lacedemonians were of braffe aloby the in-Sitution of Lycurgus. So that brash was much wood in armes in the oldest times. And where Alcaus speaketh of his linen Curace, I find that Curaces of linen were inrequest also eve g Henry a Had in those times. Homer affirmeth that a Aix Oileus had a linen Curace. h But afterward Iphicrates the Athenian held them fo good, that he gave them to his fouldiers to weare, in flede of their v fuall armes made of iron & braffe and Kenophon armeth Abradates the K.of Sufe with a linen armour, adding that it was the manner of that Countrey And Plus k Floarch in tarch faith, that k Alex. the great, after he had gotten the victory against Darius in Cilicia, found emogest the spoile a line armour which he asterward ved in the battailes, he fought. Patricius is so confident in the strength of a linen armour of his owne device, that he doub-I Patric Paral. tesh not to preferre it before well tempered tron. What his invention is, he keepeth to himfelf for feare the Turk should have intelligence of u, & so Christianity bee driven to an exigent. Almen knowe, that the temper of an iron armour may be fuch, as Wilreff the violence of a musket shorte, and that at a neere distance. Reither is this temper the invention of our dayes. The like hath been of sunctent time. "Plutarch Writeth, that Demetrius be ficeing Rhodes, was presented with two iro armours brought out of Cyprus, either of the weight of 40 pownds. The maker of them, whose name vas Zoilus, desirous to the we their strength & firmene fe caused one to be set up at the distaunce of 26. paces, and bee shorte at with an arrowe discharged out of a Catabult. The armour hitteremayned unpierced, nothing appearring vpo it, but the rafing, as it were, of a peknife. And that a Catapult is of more violece, the amufact the effects thereof declared in history make plaine. Whether a linencoate be of that re lift ance, or not , hath not been yet tried. Nay the contrary hath been tried. For Alexander at a siege of a City of the Mallians as I take it) was fore bounded with an Indian arrowe through an armour of linen. Whose armour I mould judge to have beenenot of the stenderest; and weakest, but of the surest kinde. Yet is it not to bee passed over that In us Lipfins alleageth out of Nicetas Choniates concerning alinen armour of Conradus of Atonn int that it ferrate: " Conradus, faithhee, fought then with out a target, and in fleede of a Curace hee had on a woven weed made of flaxe, foked in fowre wine, well falted, and often-folded. It was fo fure against outward force of strokes, being fulled with wine, and salte, that it could not bee pierced with iron or fleele. This invention our age hath not beene acquainted with ; Whether it bee the same, that Patricius aimethat, let experience indge. That antiquity practifed it in wood, Pliny Wine fath . Who Writing of Wooll and Weollen garments faith : Of wooll wrought and pressed together by it selfer

alone (I think as our hatters worke felt) a garment is made; & if you worke it with vineger, it cannot beeftrooke through with a fword. This wooll fo wrought, he calleth coactam: which in Cafar, as I take it, is called Subcoactum. Cafars wordes found thus : "Pompey, although hee had noe purpose to hinder a Cæfars workes with his whole army; nor yet to hazard battaile, fent not withstanding archers and slingers, of whome hee had great store, to convenient places; and by them many of our fouldiers were wounded; & a generall feare of arrowes fell ypon them; and well nigh our whole campe made them felues coates and cafes of either felts (fubcoactis) or quilts, or leather, thereby to avoide the daunger of flieng weapons. But wee will leave Patricius to his fancy, and adde an example out of Xenephon of somes which by the Chalybes, a nation inhabiting the Chaldean Atounteines. b The Chalybes, faith hee, were the most valiant nation, that the Gracians passed through, & such as durst come to handes with them. They yied linen Curaces reaching downe to theire bellies, and, ear in fleede of winges, they had roapes thick woond, and fastened together. its The strength of rouges thick wound together must, not question; be great. Cafar bot confirmethit. Emongest other defences, which his souldiers denifed for assurance of Turret against the Engine of the Marilians , he faith : They made foure ftories of Cables fitting the length of the walles of the Turret, and foure foote broade, and fastened them hanging downcward to the beames sticking out of the Turret on those three parts, which lay toward the enemy; which kinde of covering alone, they had in other places made triall, could bee forced or Prooken through by noe missiue weapon, or Engine whatsoever. This, I have beard, was the device of the Spaniards in 88. to defend their ships against the sury of our artillery. Whereof I may inferre, that if Cables combined together bee of such assurance against Engines, roapes thick layde and fastened together must bee a strong defence a gainst a sword. To end with the matter, whereof armes were made, I find: likewife, that the Macrones wied, in seeds of Curaces, coates made of haire. And thus much !! of the matter of Armes.

Besides, armes should be fitt for the body, and for the strength of him, that beares them. When David was to fight against Goliath, K.Saul, seeing him without armour, caused . his owne head-piece & curace to be put upon him. David affayed to marche, but finding thefe armes to heavy, was faine to leave them, and to goe against Goliath unarmed. Saul was the tallest man of his nation, David but meane of stature, & to put armour propor- se tioned to a large body voon him, that is a great way leffe of members is as much, as to deliver him bound to his enemy. Xenophon emongest other causes, who the Lacedamonian borfe were beaten by the Thebans at the Leuctrian battaile, alleageth this for a maine cause. That the richest men kept & furnished out horses, & as often as musters exwere take, the man, that was to serve, shewed himself, & answered to his name, & receiving horse & armes, such as were given him, was so led against the enemy.They were besten, (sith Xenopho, receiving horse & armes at al adventure, not knowing, whether they were fitt for service, or not. Whether armes be to bigge or to litte, they burt a like. To litle, they pinche the bearer, er make him not able to endure labour; becaufe he is in paine: To great, by theire flup and loofe hanging about the body, they hinder the motion of those partes, that are to be imployed in fight. Being fitte they differ little from ordimary apparaile, except it be in weight: which inconvenience is easily remedieaby vse and practife. Tuly driteth of the Roman fouldier , that his continually fe of armes was fuch, bei that hee noe more reconed his target, fword, head-piece, & other armes to bee burdenous vnto him, the his shoulders, armes, & hads, & said that armes were

part of a fouldiers body befine to fitly made & borne, that need requiring, they could throw down their burdens, & vie their ready armes in fight, as the members of their bodies. Tet must care be had, that theire weight exceed not the strength of him, that beareth them. For who ewil be able to continew long in fight, that befide the labour of fight, is charged with a burden more, then he can well bear? The proofe is plain in : Action esp. 12 beafts, which how strong soever they be, faint & tire under to much weight. . Alian af. ter, beaking of the length of pikes, eitteth this rule, that they bee noc longer then a man may well vie. & wield in handling. To much length maketh them to heavy, & unfitte to be managed wher by they rest unprofitable to offend the enemy. In this property of firmelle thate armes is weapons are compreheded, which are of mell wie in the field. For es in all other artes thinges of greatest effect are always praferred, so is it in warr. There is great advantage in armes which is the cause that one kinde hath been preferred before an other. Amilius Probus giveth a notable testimony of skill in matters of warre to tohih Arml probin crates, of whom he writeth thus: b Iphicrates the Athenian invented many things about 30 to in warr. Hee chaunged the armes of the foote: For whereas before they yield great targets, short pikes, & litle swordes, he gaue them litle round targets, called Pelte, that they might be fitter for motions & encounters, and doubled the fife of their pikes, & made their fwordes longer. Hee likewife chaunged theire Curaces, & in flede of iron, & braffe, brought in other wrought of linen, wher by he made them nimbler at all affayes. For leffening the weight, hee brought to passe, that they as much covered the body, and yet were very light, and fitte for vse. Of these targets, which Iphicrates invented, the names of Peltati (Targetiers) fprong : of whom wee shall heare more in this chapter. And yet wee must not heereof coclude that Iphicrates chaunged all the armed foote into Targetiers. (for the e Records had Athenians had still their armed not with stading this invention of Targetiers, as " Xeno-Gross, was \$ phon testifiath) but where as the Athenians before had noe targetiers of their comme people, (as I consecture) Iphicrates brought in this kind of armour: and fo of the armed hee made some targetiers, & left the rest to the armes, they bore before indiging it more prosi-A the input, made some targetiers, & lest the rest to the armes, they bore before indiging it more pross-bors to a first table to have both Targetiers, & Armed of their owne people, then armed alone, & Philo-lorem 5: 1944-peamanada, as permen also the brane Achean Generall taught his Country-men in stede of long targets & lavelines to take around target (called Aspis) & apike after the Macedonian maner, and to arme themselves with head-pieces, Curates, & greues, and to settle themselves to a staid, and firme kind of fight, in lieu of concursory, and pelsasticall encounters, and by this meanes brought the to be valiant, & brane fouldiers, & victorious in their fights against Payb ! = 112 their enemies. Polyb. discoursing of the Gaulois & Spanish swords of aunciet time, saith, 8.36 E & Eb . that the Gaules sword was so fashioned, that it served onely to strike with, and but for one stroke: after which it so bowed both in length & breadth, that vnlesse the point were rested vpon the grownd, & the blade rightened, you could not strike with it the second time. But the spanish sword was both for thrust & stroke, having a strong point, & a stiffe & sure edge to strike withal on either fide by reason of the firmnesse of the blade. This difference the Romas espied. and being excellent imitators of all thinges, which were best for vse (though they were enemies from whom they tooke them,) made choice of the fpanish Escian in mac- fworde, & after Annibals time caused their foote to vienoe other. Suidas witnessethit: The Spaniards, faith he, in forme of swordes farre excell all other nations. For their swords both have a strong point, and an edge on either side, that entreth deep in striking. Which caused the Romans, to lay down their owne countres fwordes, and take the spanish forme from them, that followed Anniball. The formethey took, but the goodnesse of the mertall, & exactnesse of the temper

they could never atteine vnto. The Romans then rejected the french fivordes, as of Small ofe, & imitated the spanish, because they were fitt for service. Xenophon describing the nations which followed Crafus against Cyrus, theiremanner of arming, and order in bactaile, telleth of the 2 Egyptians, that they were armed with targets reaching downe to a Menoph, Cyr. theire foote, with long pikes, or with swordes, which they call Copides, of for order, food be copides were their foote, with long pikes, or with sworders, which were a hundred in depth, or bringeth in Cyrus deriding this manner of arming, and order, to freeder as the his fouldiers, surged they were a like armed, a like embastailed. For their etargets, said he, pomes, they were a like armed, a like embastailed. For their etargets, said he, comes, they were a like armed, a like embastailed. For their etargets, said he, comes, they were a like armed, a like embastailed. For their etargets, said he, comes, they were a like armed, a like embastailed. For their etargets, said he, comes, they were a like armed, a like embastailed. For their etargets, said he, comes, they were a like armed, a like embastailed. For their etargets, said he, comes, were a like armed, a like embastailed. For their etargets, said he, comes, were a like armed, a like embastailed. For their etargets, said he, comes, were a like armed, a like embastailed. For their etargets, said he, comes, were a like armed, a like embastailed. For their etargets, said he, comes, we have a like armed, a like embastailed. For their etargets, said he, comes, he was a like armed, a like embastailed. For their etargets, said he, comes, he was a like armed, a like embastailed. For their etargets, said he, comes, he was a like armed, a like embastailed. For their etargets, said he, comes, he was a like embastailed. For their etargets, said he, comes, he was a like embastailed. For their etargets, said he like embastailed. For th are greater then is fitte for action, & for fight, & being raunged a hundred deep, it is ma. nifeit, they will hinder one another in fight, except a fewe, b Annibal, after his first victory b polyb lib se against the Romas, ar ned his Africans (his best & most trusty (ouldiers) with the armour Portos C of the flaine Romans; because he found it better, then his owne; & Pyrrhus weed not onely the armour, but the Italian fouldiers also . & raunged them a cohort & a Merarchy, alter natively one by another. And Mithridates after his experience in his first warrs with the a Pleachin La Romans, that af well in arming, as in manner of fight, they excelled all other nations, left culto the arming of his owne Countrey, & brought in the Roman fword, & target, & reduced all as neere, as bee could unto their discipline. So then strength & fitnesse are required in armes. To them is comeline fle adjoyned. The shield of Achilles how was it bewtified with pictures & Stories by Vulcane and that of Eneas, comming out of the same forge, how glorious was it: To fay nothing of the brane armes of Hector, Agamemnon, Diomedes Glaucus, Turnus, Mezentius, & other & Alexanders armes were very rich Ho had a & Plus in Alex Sicilian Caffock gyrded vpon a double lin n Curace the spoile of Istes: his headpiece was of iron, shining like pure filver, the work of Theophilus, about his necke was an iron gorget befette with precious stones. A sword hee had of wonderful temper & lightnesse, the gift of the Citiean King, Hee wore a baudricke of prowder worke, then the rest of his armour, the work of the elder Elicon, & the honour of the Rhodian City. And Cyrus the elder, that lived before except Cyrop Alex time, had armes provided by his Grandfather Astrages both very faire, & fitte for the 1.3 c his body. Abradates the Sufi in king had his headpiece of gold, & vambraces, and fxenorth crops bracelets about his wrests, & a purple Coate, and a plume of hyacinthine seathers. Neither did this bravery rest emongest the Princes alone. The souldiers of Cyrus s were furnished with the same armes, that Cyrus himselfe bore, with scarlet g xenop. Cyrop coates, Curaces of biasse, brasse helmets, white plumes, swordes, & euery one a fib 73172 is darte. They differed onely in this that their armes were guilded, Cyrus his armes shined, & had a reflexion, as it were, a looking glasse. And Alexan, hea- h Corting like ring of the riche armour, the Indians bore, to make his owne fouldiers equall subver-argenters. with the in bravery, whom they exceeded in valor, caused theire targets to be plated over with filver (whereof they were after called Argyraspides) & their horse-bittes to be made of gold, & adorned theire Curaces, some with silver, other with gold. This might feeme pompe & superfluity in a yong King , were it not that the like was done by other the greatest Generals of auncient times. Cefar may ferue for an i Plutarchin example for al, whose souldiers how gallant and braue they were, Plut testifieth in his life. The Romans otherwise much addicted to frugality, allowed yet liberally ornaments to the honouring of worthy fouldiers, rewarding them for their fervice, with rich trappings for & Plinishiller. horses, chaines of gold, bracelets, crownes of gold of other honors: which they wore rot on- volyb ilb e. ve ly in the field, but at al other folemnities & meetings in the City. And for every common B.C fouldier they provided plumes of purple, or blacke fethers, every one of a cubit long. Of which plumes Polyb. giveth this indrement : Pluimes, faith hee, being added to the rest of the armour maketh a souldier seeme twice as great, as hee is; and beside the faire shewe, they make, they are terrible to the enemy in fight. I man may feeme as light, as a fether, that discourseth of plumes, & fetchesh ornament from fethers.

the meaning of the Oracle was not of Cockes, but of men, that, wearing some ornament on their heads, had a resemblance of Cockes, maged a multitude of Carians against Tementhes, by whose help he overthrew Tementhes in battaile, & possessed himself of the crown of Egypt. Now for the true end of fouldiers ornaments I wil onely adde one example. Philopamen the Achaan in reforming the abuses crept into the Achaan State with great e phin philon indgement (I mill vse the wordes of Plutarch,) reduced to order theire delica-& idle defires, wherewith they had of long time been possessed, delighting in excesse of apparaile, in riche dyes of coverlets, & carpets, striving one with another, whoe should be most sumpruous in bankets & feastings. But by little & litle beginning to turne theire thoughts from vnnecessary expences to a loue of comeline sie in thinges, that were profitable & honest, he brought them at last to leave the expences of the body, & to shew themselves gallant, & brave, in soldierly, & warlick furniture. A ma might therfore have seene the shoppes full of filver and golden cuppes cutte a pieces, of curaces guilded with gold, of filvered targets, and bittes; the places of exercise fraught with colts then first backed for Tervice, & with yong gallats managing their armes, & in the handes of women head-pieces adorned with divers-coloured trymmings, horiemens coates, and fouldiers cloakes curiously embellished with flowers. For the very fight of these things both encreaseth Spirit, & stirreth vp desire, & engendreth an vndaunted boldnesse, and alacrity to daungers. In other shewes to much lavashing bringeth in effeminatenesse, & worketh a remissenesse of minde, the fence with vaine pleasings and ticklings subverting, as it were, the vigor and force of the vnderstanding. But in these the Spirits are much heighbened, and exalted. As Homer bringeth in Achilles at the very fight of his newe armour ravished and instamed with a defire to bee doing with it. Thus garnishing the youth hee exercised & hardened them to laboure and warlicke motions, making them thereby to undergoe with defire what soever they were commaun. ded. So farre Plutarch. Out of whose opinion it followeth, that Bravery of armes raiseth the spirits, stirreth up desire to fight, maketh the souldier bold, and cherefull to pe-

rills, and as Polybius holdesh pleaseth the sight, encreaseth stature in showe, and is a terror

to the enemy. Tet ought there therein a meane to be sought, & rather an assuraunce follo-

wed, then vaine gazing and oftentation. Antiochus being to fight with the Romans ga-

thered a mighty army together. And feing them glitter with gold and filver, and with

all excesse of bravery, as the manner of the Asiaticall people was, tooke so great delight

therein himself, that calling Anniball unto him, hee shewed his troopes, and demanaded,

if hee thought not that Army sufficient for the Romans: yes quoth Anniball, though

they were the most coverous people in the world. Anniball with good reason derided the

vaine herve fitter for a mall then a field mhich Las of

fire ought to bee first for surenesse, then for sitnesse, lastly for comelinesse and ornament in armes. If the two first fail, the last availeth litle, and will prove rather a burden, then a defence. And thus much of armes in generall: Nowe followe the particulers of armes, as they are in Alian. Preparacions absolutely necessary for warre] The preparacions, whereof A ian heaketh, are so necessary, that without them noe warre can be made or continewed. For purposing to fight by water you must have shippes, by land, you must have foote, and harfe. For which, if you poulde noe armes, you put them into the field not to fight, but to bee flaughtered. The manner of fight in the field is not of one fort. Some time celerity is needfall, to attempt or prevent the enemy formetime a flowe and fure proceeding, left, with to nuch halt, wee be overtaken our selves Therefore the divers arming of souldiers, ought to be such, that they may forue for all occasions, and ves, and that wee may employ alwayes to service such, as by reason of theire armour, shall most fitte our purpose. Wherefore a Iphicrates fittly resembled an army to a mans body calling the heavy-armed the a Plutach in Pebody, the light-armed the hands, the horse the feete, and the Generall the jon lophic 6 18 head: and as, if any of the rest were wanting, the army should bee lame, and halted, so two takes in if there want a Generall, it is unprofitable, and of noe u fe. The heavy armed are the body, Which give life and foode, as it were, to the rest: and to which the rest being distrissed, retire. The light-armed are the handes, which uppon every occasion being put out to gr pe and take hold upon the enemy, are drawen in againe, when it is expedient. The horse, as feet, move with celerity; the Generall is the head, that ruleth, that Watchesh, that careth for the rest, directing the times of their emotion, and of their rest. So then the

inalliwords, and caused long neavy targets to bee framed, and choic horses, rather that were already managed, and made fitte for service, then those, that

were richly trapped and garnished. So farre Plutarch. The fouldiers care there.

to hole force of the field confisteth of horse, and fooce. And the foote are reparted into three kindes. Armed, Targetiers and light armed | Thefe feuerall kindes of fouldiers were Wedry a like Greeians, of pecially by the Mihensans, Lacedemonians, and Thebans, Whoe b Thoughlib.

Were the mightieft, and the most warlick people of Greece. Alexander had them in his army against Darius. When Alexander, faith Arrian, came to the place, where canin base Carus (with whom Xenophon was) encamped, and fawe the streights of Cilicia poff iffed with a strong gard, hee left Parmenio with the heavy-armed, to fray behind, himselfe about the first watch taking with him the Hypaspistes, archiers, and Agrians, marched on toward the streights in the night. The armed Were left Wuh Parmenion, him felfe toke With him the Hypaspilts targetiers archers, and Agrians : Thefe Arrians were durters on foote. The like is to be found a Arrianti 1,14 and overs other places of Arian Pyrrhus allfo, that followed the Micedonian man- & Phoanch. in

ner in arming his fouldiers . had the same division of armes . \ And Philip King of grabbane

because it some what resembleth the Curaces of our time, I will reher se the descriptio out e Pavlania Pho of e Pausanias. There lay vpon the aulter, saith hee, a brasen Curace, the forme whereof agreeth not with the vse of our times, but of old it was common. It

had two plates of braffe, one fitte for the breft and the belly, the other to cover the backe. That before was called gyalon (the hollow part) that behynd Profezon (because it was added to the other.) They were fastened together with buttons behinde. It feemeth to bee a fufficient defence for a mans body without a Target, Therefore Homer maketh Phorcys the Phrygian to fight without a target, because he wore such a Curace. But yet, that it was not the manner of the Macedonian armed to be are pike & target alone, may be plaine many wayes. First Polyen giveth them headpieces, or greves, and targets, and pikes. Then doubt I not but they were as well armed as the rest of the Gracians, within whose Panoplia Curaces were comprehend das S. Paule sestifies he rekoning as parcels of the Panoplia, a Curace, a tar-

f Dud wood lib arange a headpiece. Now that the Macedonians had alo their Panplia full or compleate arming) is to be found in Diod. Siculus Where also Choragus the Macedonism (whom 2. Curtius calleth Horatas) is faid in the fight betwixt him of Dioxippus to be fully ar. R Lencapes med. Leo describeth the Panoplia of the Macedonians after this manner. Alexander, faith hee, armed his Macedonians with a large target, a fword, a head-piece, greurs, vambraces, and a long pike. Philopemen (as is before reherfed) reducing his Mchann to the Macedonian arming bringeth them to Curaces, head pieces & greues. The b Plus in Timol. names also that are attributed to the Armed, shew, they were otherwise armed h Plutarch calleth them Pephragmenos, & Cataphractos as having their cbodies all armed & opp stb i vegette caro them to Euconi light or naked: And by Vegetius, the armour it self is named Cataphracta, k Nemph. Cyt. because the Whole body is covered there with xen phontermeth them Thoracophoros bea-

1 viget. It is cap ring Curaces.) These are the strength of the battatie, and a strong wall or rather a surtresse n Died Siculto of the field to whom the light armed, and the horse also retire in time of need. As long as they fland, the field is not lost; being defeated the rest can make noe resistance. Being armed with a fingle target without other armes, they incur the same daunger, that the Romans in Gratisms time did, whoe for want of Curaces were entirely destroyed with the arrowes of the Gothes. Wherefore it seemeth, A lian heer pointeth at the principall armes onely of the armed Macedonian. For after ward discoursing of the light-armed, he saith, they neither had Curace, nor greue, nor long or round target: implieng thereby, that the armed had them all. n Livy lib s. 248 So" Livy, comparing the armes of the Romans and Macedonians together, faith noe more, then, that the Macedonians were armed with a round target and a pike, the Romans with o Livy to 1.1.7 along target, and a darte, called Pilum; when himself had before declared, they had head-

Macedonian target was so covered, I deny. d Alian after calleth them chalce (brasen) d cap 12 not epichalce (covered with braffe.) Polyb. faith, that the Macedonians in the time of Basin spile K.Philip the some of Demetrius were called Chalcaspides (Erasentargetiers) not cpi- \$ 1320 chalkitai, by which name, as Hefychius hath, they were called, that had their targets covered with brafe. So like wife in the time of Perfeus. And the Megapolitans, who cimi folia in Acmilio tated the Macedonian manner of arming, are termed Chalcaspides sin Polybius: I have a Poyblasse fix the the Lacedonian shad brasen targets by the institution of Lycurgus: 6 that, h keeps deep, laced on the Lacedonian shad brasen targets by the institution of Lycurgus: 6 that, h keeps deep. in the time of the Heroes almost all armour was made of brafe. The targets of the Lacede. Pour m Boo. monians that were stine at the battaile of Leuctra were brasse, and to bee seene in the time was so of Pausanias; and the brasen target k of Pyrrhus, Which he left at Argos, being there slaine, k P usa in Co. Was kept in the temple of Ceres. As for the Weight, it is not so great but it may become light enough by vie, and exercife. Wee see iron targets in vie at this day, and not hard to be borne. And albeit the weight bee not for every mans strength, yet since it bath beene, and is, the

been able to have born them for the weight. I deny not, that in auncient time some targets

were plated with braffe: the rather, because I find, that Alexander to match the Indian

pompe covered the targets of his fouldiers with plates of filver. But, that the ordinary

manner to make choice of fouldiers, and to fitte them with armes according to the ability of their bodies, I see noe reason, but the stronger fort might well bear them. Another sort of targets there was which differed from the Macedonian not so much in forme of roundnesse, as in matter, and manner of carrieng. They were made of wicker, and borne in the left hand as our bucklers, which wee a fed not long fince; and fome covered over with hides, some not. I Xnorth de Xo. m Kenophon faith, that Cyrus the elder armed the Persians with these Wicker targets: or relo m Xenoph, Cyr. ning up the nations, through whose Countries the Gracians passed in their returns out of Per-

sia,& describing their armes," reporteth that the Chalybes, Taochi,& Phasians had targets a xenonde xpe.

of this kinde. Now, that they were borne in the left hand, is clear by the same Xenoph, Hee Contibe, 150 writeth thus of the fight betwixt Cyrus & Crasus: The Egyptians & Persians encoun. 1607,177 E. tring together, the fight was hard, & sharpe: & the Egyptians as wel in number as in armes, had the advantage. For they fought with stiffe, long pikes, & theire large targets better covered their bodies, then Curaces, or wicker targets, and being borne on their shoulders availed to joint thrusting foreward. Serring therefore their targets close, they advaunced, & ranne on. The Persians were not able to endure the shock, by reason they bore theire Wicker targets at the

armes end, but retiring by litle, & litle, & giving, & taking blowes, they mainteined the fight till they came to the Engins. So farre Xenophon. Out of which words a man may plainely understand the manner of bearing these wicker targets, which by rea-Son of lightnesse might easily bee held out at armes end. And as the Egyptiantarget, which reached downe to the foote, must needes bee heavy, and therefore had need of the shoulder to support it, so was it with the brasen targets of the Macedonians,

pieces, Curaces, and grenes. 3 Vsing targets after the Macedonian manner] Targets were of two fortes, round targets, and long targets. Long targets were called Thureo, and were in forme

the band, so soper. Of Polipax Helytonus fatto it is the handle of the target. O taketo Porpcinthe same sence, making it the thing bearing vp the targett into which 'a suidas faith, Porpax is it, that they hold the target by; which is called ochanes: & againe, that some take it for the band of the target; other some for the middel iron that goeth through the target, on which the fouldier taketh hold. So that both He fychius, & Suidas agree, that Ochanon & Porpax are sometime alone, and signify the handle of the Target. In e Harodous II. Which sence Herodotus & Pausaniastake Ochanon also. Hesschius further interpreteth 1. Man in Eli- it for the band of the target o dispus Which signification better agreeth With the meaning of Plutarch, who maketh an apparant difference betwirt the, reporting that Cleomenes taught the Lacedemonians to cary their targets, by the Ochene, not by the Porpax. When he faith by the O chane, hee meaneth by the strappe, by which, being fastened about the necke, the target is throwne over to the back, or resteth v pon the left (houlder. That, which I say, will better appeare, if we marke, what the Lacedemonian did before, & what Cleomenes adviseth them unto. Before they carried a speare in the right hand, and a target by the handle in the left, so that both their hands were ful. The speare was not able to match the enemies pike g Pharacchin vi (for 8 Cleomenes had often to doe with the Macedonian; & Ahaans, whoe both vsed pikes) & pikes, the Lacedemonians could not viseld, with one hand; So then, to give them liberty of

both hands, he counselled the to cary their targets at theire backs by the frappe or Ochanic (which was the Macedonian manner) and not to hold them any more by the Porpax or handle, and so to free their left hand to apply both to the menaging of a pike. This I take to be the direct meaning of Plutarch: Cleomenes then persuaded them to leaue theire speares, & take pikes. And left the target in the left hand might prove an impediment to the vs. of apike, hee thought best they should cary them at their backe by the Ochane. To cary them then by the strappe at the backe is to give free vse to the left hand, without which a pike, specially a long pike, such as Cleomenes advised them unto, cannot be wielded : as experience will teache any man, that list to make triall. 4 And long pikes. Pikes for the most parte have been called by two names by the Gracians; Doru, and Sarissa. Alian nameth them Dorata both heere, h Xenoph de and in other places of this book. h Xenophon, speaking of the weapons of the Cha-nace lybes, saith they had Dorata of is cubits long; armed with iron at one end onely. types, juining man Doiana of 13, and 15, and that place of Plutarch last reci-

ted where Cleomenes per swaded the Lacedemonians to chaunge theire Dorata (speares)

the speares of the Acheans into pikes, calling the speares, Dorata, the pikes,

Sarissas. And even in this place Alian termeth them not Dorata simply, but with

addition of Perimekestera, of along sife. And after describing the armes of the

Peltastes hee saith theire speares (Dorata) were much shorter then the pikes (Sarissa)

of the armed. Properly the pike of the Alacedonian's termed Sariffa : if Cometime

& Plat in Philo into Sarissas (pikes.) The like recountesh hee of k Philopamen, who chaunged

rius. Besides it is said, that the Macedonians had the advantage in weapons, Take it thus, that they fought with dartes against lavelins, what advantage had they? especially being come to the shock: Dartes are wied a farre of. At hand noe man figh. teth with them, valeffe hee have not other weapon. I thinke noe man will deny, but that a lavelin in closing is more advantagious then a darte. And that Xyston signifieth a launce Alian himselfe testissieth in this Chapter calling the laun. ciers Docatophori, or Xystophori. The Macedonian then had his horsemans staffe of Corneil. Which Pliny affirmeth to bee a found and a fast wood. If b Pliny agent his launce: aman may probably coniecture, his pike also, which exceeded the launce in length and thicknesse onely. Wee at this day preferre the Ashe before all woodes for toughnesse, lightnesse and beautie; especially if the vaine runnethrough to the end. Notwithstanding I finde in Cicuta a knight of Venice, an old souldier, and c Aurel, Cicura de diespinamil. one that followed the Emperour Charles the fift in his warres of Africk, that the opinion ub. 13118 of his time enclynedrather to Fire, both for lightnesse, and strength. I have not seene the experience: therefore leave I the judgement to triall. Wee have then out of Alian that the armed, had both target and pike, that one man should at one time we both target, and pike in fight, against the enemy will seeme incredible in our dayes. Tet vsed the Macedonian (ouldiers both; at one instant they both charged their epikes, and covered themselves with theire targets against the styeng weapons of the enemy. The manner was this : when they elosed with the enemy, they charged their epikes with both handes, and with a flight wrying of the body, and lifting up the right shoulder, whirled their target,

hanging at their backe, upon the left shoulder, that stood next the enemy in the charge:

and so covered all theire body to the midle, and beneath. I have touched it in the practife of Cleomenes. It appeares hmore plainely in Plutarch, describing the battaile betweet K.

nowe the heades of their pikes stiffe vpon the targets of the Romans, not suf-

fering them to come vp to the sword: which when hee sawe, and sawe with all

the other Macedonians casting about their targets from behinde their shoul-

ders, and receiving the Roman targetiers with their pikes abased together at

one fignal, and likewise the firmenesse of the battaile shutte vp, & serred, & the

roughnesse of the front (the pikes lyeng out before) he became assonied, & af-

Perfeus, and the Conful Amilius. Hee hath this: d'The enemy approaching Ami-d Phumh in

lius issued out of his Campe, and fownd the legionary Macedonians, bearing Academy

of Arrian whoe turneth Xystois Crancinois into Corneil dartes, whereit should

bee. Corneil launces. For in that place Alexander is reported to have fought

with a launce, and to have broken it in fight, and to have asked another of Arctes,

one of the Quiries of his stable, whoe had also broke his, and fought with the trun-

cheon, and to have taken the launce of Divarates the Corinthian, and returned pre-

fently to the fight, and therewith overthrowne Mithridates the sonne in lawe of Da-

borroc. 6 Flyeng weapons onely] The light-armed are divided into three kindes. honing. Archers, Darters, and Slingers. Which three kindes were of much viewmongest h Xenoph Cyn. the Gracians, and they beare onely flieng weapons. h Xenophon testifieth that Cyrus the bonis, et elder had them: And the Gracians in their ereturne out of Persia: Alexander had ped lib 3 306 B, them in his warre against Darius : and Pyrrhus in his warre in Italy, Sicill and Greece: a wong store. The Gracians against Brennus King of the Gaules: "Both the Athenians, & Thebans Pluarch in At the battaile of Delos. 7 Arrowes] Archers have alwayes beene of speciall esteeme for the field, and pre-Ph. cia cia. ferred before the other kindes of light armed. Many nations have beene commended BIS E. OP India, in At. C. Theire skill in shooting. Emongest the Gracians the Cretans were (of auncient time) sole archers, as Pausanias witnesseth. Tet was not theire service aquall with the service of the Persians. For Xenophon confesseth, that the Persian bowe overreached the Cretan a great way: and that the Rhodians with theire sling owt-threw the Cretan bow. Of the Cardichans a people, through whose Countrey the Gracians passed at their re-P. Xenoh de en turne out of Persia, Xenophon writeth thus . They caried noe other armes , then bowes and flinges. They were excellent archers; and had bowes well night three cubits long; arrowes more, then two Cubits. When they shotte, they drewe the string, applieng theire hand some what toward the neither end of the bowe, setting their eleft foote foreward. With their earrowes they pierced both targets, and Curates. The Gracians putting thonges to the middest of their earrowes sent them back at the enemy in steede of Dartes. The a Diodor Sicul. Same in effect is reported by Diodorus Siculus. Of the Parthian horsemen, Appian

Saith : When Crassus commaunded the light-armed to disband, & goe to the charge they went not farre, but meeting with many arrowes, and being fore galled with them, they retired streight, and hid themselues emongest the armed, and gaue beginning of disorder, and feare, repræsenting to the fight of the rest, the force, and violence of the shorte, that rent all armes, they fell vppon, and made way aswell thorough bodies, that had the best, as the worst furniture defensive: giving mighty and violent strokes from stiffe and great bowes, and forcing out the arrowe boilteroully with the compasse, and bent e Pluarda in of the bowe. Platarch hath the very wordes, that are in Appian. The Indians Transaction Of the bowe. The sale of the conference of the sale of

rowes were two Cubits long, which they deliver out of theire bowes, with

more labour, then effect: for as much as the arrow, whose whole efficacy is in lightnesse, becomethaltogether vnwieldy by reason of the weight. And yet

hee telleth, that Alexander, at the affault of the principall City of the Mallians,

was strooke thorough his Curace into the side beneath the pappes with an In-Plutarch nA. dian arrowe: with whome Plutarch and Diod. Siculus accord. V Arrian addeth the

sent, with many great souldiers, yet have they of auncient time been highly prised. Vege. e vegalibre tius saith; how great advantage good archers bring in fight, both Cato in his 15. bookes of military discipline doth shewe evidently, and Claudius, by augmenting the number of archers, and teaching of them the vse of theire bowes, overcame the enemy, whome before hee was not able to matche. Scipio Africanus (the yonger) being to giue bittuile to the Numantines, that before had forced a Roman army to palle under the yoake, thought hee could not otherwise haue the better, vnlesse hee mingled chosen archers in every Century. And Leo the Empercur in his Constitutions milita- & Lough & \$. ry hath this Constitution emongest other . You shall comm un fall the Roman youth, till they come to fourty yeares of age, whether they have meaneskill in thooting, or not, to cary bowes & quivers of arrowes. For fince the art of shoo ting hath been neglected, many, & great loss have befallen the Romans. And in another place : 'you shall enioyne the Communders vn der you, in winter to e tous ins take a view, and to fignify to the Turmarches (Coronells) how many horse, & 49what kinde of armes the fouldiers, under their commaundes, stand in need of, that necessary provision bee made, & the souldiers be furnished in time conve-

as necessary for the forther field (or that long after gunnes were invented) prefer. distinguishin mili-

glish arrowe with a litle waxe put vpo the point of the head, wil passe through 3 PS 17 any ordinary Corllette or Curace. How sever the credit of bowes is lost, at this pre-

reth the English before all other, and setteth him downe, as a patterne for other to follow. And Patritius, disputing of the violence of arrows, doubteth not to affirme, that an En-b Pavit Pavil,

nient. But specially you are to have care of archers, & that they, whoe remaine at home, & haue vacation from warre, hold bowes and arrowes in their howfes. For careleffnesse heerin hath brought great dammage to the Roman State. So L'o. This of ould time was the opinion of the Romans concerning archers. Howe wee are fallen out with them in our dayes (the skill of the bowe, being a quality so commendible, and so proper to our nation) I knowe not, unlesse fire-weapons perhaps have put them out of countenaunce. And surely it may not bee denied, that the force of fireweapons of our time doth farre exceed the height of all old inventions for anoyeng the enemy. And, when I have given them the first place, I will not doubt to give the se. cond to bowes and arrowes being so farre from casting them of, that I would rather follow the wisdome of the Gracians; who e albeit they esteemed arrowes the best slieng wea-

vantages are, they are not alwayes certeine, sometimes for want of charging, sometimes

pons, yet thought it not amise to hild in vse stinges, and durtes. Every weapon hath it property; and that which is fitte for one service, is not so fitte for another. The fireweapons have theire advantages; They have also theire disadvantages. Theire advantage is, they pierce all defence of armour, and lighting upon a place of the hody the wound whereof endaungereth life, they bring with them certeine death. Theire disad-

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fire v pon the enemy at once. For the re beninde, discharging, shall either wound theire
           owne Companions before, or else shoote at randon and so nothing endunger the enemy,
           the force of a muket being onely an atteable at point blanck. Contrary wife the dif.d.
           vaniage of arrowes is in the weaknesse of the stroke, which is not able to enter a Cu-
           race, that the five or horse nower se. Tet can noe weither bee founde, where in you
           may not have good ve of bowes: rune, frome, winde, haile, figges, hinder little ef-
           pecially the living of the bowe being not to Wette magrather profit Because in them
           you can hard y differne, much leffe ar orde, the fall of the arrore. As for quicknesse is
           delivery he bo defarre excelleth the musket. A good fingle archer is able to give five
           Shotte in exchaunge for one of the musketier; and that with such certainty, that you had
           not heare of an archer that misseth the delive y of his arrow, where the musketier,
           often fill th byre fro of the accidents and impedments before by mee reheaf d. loine that
           a whole found on of archers, being embattailed, may loute at once together: which onely
           the first ra ke of musketiers man doe. And masterbe case there were a hundred mus
           ketters, and thurdred bowe-men eche digested intoten fles, eche file contegning ten men,
           the bowe men shall bee able to stoore at once a hundred arrowes (all theire arrowes; for ten
           bullets given by the mu ketters, namely those tenof the first ranke discharging alone. It
           mul not bee pretermitted, that thebove and quever oth for marching, & all fervice, are
           lighter and of life labour to the, then a musk to, which is not foul advantage in armes
           and fight. To conclude the bowe men may be eplaced behinde the armed foote, and
a Placiosylla, yet in shooting over the Phalange anoy the enemy before loyning, and all the time of
           fight, even whilest they are at pushe of pike; where the musketur, thereplaced, must
           esther sdlely look on, or elfe playing with his musket, most of all endaunger his owner
           friendes. Reither is the force of arrowes so weake, as is immagined, noe not in the
            arming of our dayes. For the pike albeit hee have his head and body covered, yet are
           his legg's, and feete, his armes, and handes open to woundes: any of which parts being
           wounded bringes a disability of service. To say nothing of his face, and eyes, before
           which the showers of arrowes falling like a tempest without intermission, must needes
           breed aremedilese terrour, and make him thinker ather of faving himselfe, then offen-
           ding his enemy. The must etier being also unarmed is as subject to the shorte of arrowes,
            as the archer is to the shotte of the musket; and the arrow touching any vitall parte, as
            much taketh away life, as doth the musket. Lastly a horse man for his owne person (1
            must confesse) is sife enough from the daunger of arrowes by reason of his armour but his
            horse, being a faire and large mark, and having neither barbe, nor pectorall, nor
            ought else to hide his head or breast, how can hee escape woundes. Witnesse our fieldes
           in France, where our Archers alwayes beate the frenche horse, being barbed, and bet-
           ter armed, then our horse are, at this day. And for the bloud, effect of bowes the story
6 Phared in of Plutarch is morth the reherling. He, in the life of Crassis hath thus: 6 The Parthians
            opposing the Cataphracts against the Roman horse, the other Persians gallog
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bee compared to our auncient English bowes, either for strength, or farre shooting. And that wee may not seeme to rely upon antiquity alone. The battaile of Curzolare (com. 2 Paris, pull mon'y called the battaile of Lepanto) fought in our dayes betwirt the Turkes, & Christi. milipania; 9 ans by fea may ferue for an experience of the fervice of bowes and arrows. In which there died of the Christians by the arrowes of the Turkes above fine thow fand, albeit they were in gall-yes and it ps, and had theire blindes pretended to faue from fight, and mark of the Turks, where as the artillery of all forts of the Christians consumed not so many Turkes: notwithstanding the Christians had the victory. Nowe then for us to leave the bowe, being a weapon of so great efficacy, so ready, so familiar, and as it were so domesticall to our nation, to which wee were wont to bee accustomed from our Cradle, because other nations take themselves to the Musket, bath not so much as any shewe of reason. Other nations may well for beare that, they never had. Neither Italian, nor Spaniard, nor Frenche, nor Dutche, haue these sine hundred years, been accounted Archers. It was a skill almost appropriated to our nation. By it, wee gayned the battailes of Cresty, of Poitiers, of Agincourt, in France : of Naverre, in Spaine : Byit, wee made our selnes famous over Christendome. And to give it over upon a conceit onely (for noe experience can say that our bove was ever beaten out of the field by the musket) will prouv an immitation of Asops dogge, whoe carieng a piece of fleshe in his mouth over a river, and seine the shadowe in the water, snatched at the shadowe, and left the slesse. I speake not this to abase the service of muskets, which all men must acknowledge to bee great; I onely shewe, there may bee good wse of bowes, if our archers were such, as they were wont: which is not to bee dispaired, and will easily come with exer-ن-اُنةُ Dartes The names of dartes are divers in the Greek Story. A Darte is

and theire feete fullened to the grownde, whereby they were vnable either to

fly, or fight. These wonders did the Parthian bowes, which notwithst anding were not to

8 Dartes] Then ames of dartes are divers in the Greek Story. A Darte is often called Acontion: and thereof cometh Acontizo, to throwe a darte, and darters are called Acontifix. So do the Alian here terme a darte. Sometimes a darte uter-b x completes and Palton of the verbe and in figurifieng to shake or make quiver. The word Palton is a think is proch whether Arrian and a Xenophon especially, when they speake of the Persian dartes, in is a blief a Tet-Diodorus Siculus nameth the Persian darte Saunion: which name also is given a blief a to a Greeian darte by Plutarch, and by the same Diodorus. Sometimes a darte is named at 18 at 18 feel.

ronging the sength, I give, it aiffered not from the Roman darte in Polybus: and Xenophon seem th to affirme it, when speaking of the arrowes of the Carduchans, e Xenoph de ex. che faith they were longer, then two cubits, & addeth, the Gracians fent them 312 D. & Died backeagaine at the enemy in stede of D. irtes. About the middest of these dartes they fastened a thong, which was called a more, wherein, inserting their e forefinger, they

launced the darte with more facility. Xenophon witnesseth it in the same place, and in 4 Xemph de es. another place hee faith, 4 Xenophon commaunded the targetiers to marche with 23.7 A. theire fingers in the thonges of theire dartes, the archers with theire arrowers. theire fingers in the thonges of theire dartes, the archers with theire arrowes nocked, the flingers with their scryppes full of stones, that they might be redy to let fly, when they were commaunded. These dartes were forcible enough to pierce e Xenoch. Hill armoures of that time, and that with them alone I phicrates overthrew and distroyed a whole Mora of the Lacedamonians, which people were accounted the best armed, and the most valiant of the Greekes, before the Macedonians came in credit. 9 Stones.] There are heere mentioned two manner of throwing stones, the one

with the sling, the other with hand alone, The stones, thrown with the sling, sly with much more violence, then the stones throwne with the hand and, being cast with a skillfull and strong arme, they reache a greater way, then a man would thinke. And yet not fo farre, as bullets throwne out of a sling, which by Xenophons report outreached the Persian arrowes. f Xenoph deer. I have before souched the flory: I will nowe lay downe Xenophons wordes, I find Groves, ped cyni ib.; ans (those ten thowsand, that returned our of Persis under the leading of Col. ans (those ten thowsand, that returned out of Persia vnder the leading of Cherisophus, & Xenophon) had not marched farre, before Mithridates appeared againe with 200. horse, and 400. Archers & slingers, which were very nimble & light. Hee came close vp to the Gracians as a friend. Being neer, some of his horse,& foote began to shoote, other to sling & to wound the Gracians. The reare Commaunders of the Gracians were hardly bested. Yet could they doe nothing to anouthe enemy. For the Cretans shoote not so farre, as the Persians, & carieng noe armour of defence, they were faine to hide themselues with in the body of the armed, & the Darters were not able to reache the flingers of the enemy. Xenophon therefore having the rear, thought good to charge and follow the enemy. But hee was not able to overtake them, (for the Gracians had noe horse) & the Barbarian horsemen, shooting backward in theire flight, wounded many of them, that gaue the chace. To remedy this inconvenience Xenophons advice was to provide horse as many, as they could. And hearing, that there were many R hodians in the Campe, skillful in flinging, whose flings

one about theire heades, another about theire waste, the third in theire hand. In warre they cast greater stones, then any other, and with such force, that they may seeme to bee sent out of a Catapult. Therefore in sieges and affaults of Cities they wound the defendants of the walles, and in the field broake targets, and head-pieces, and all defensive armes. They ayme so certeinely at any marke, that they fildome faile in hitting. The cause is theire continuall practife from theire childhode, theire mothers continually enforcing them to fling, even when they are yet children. For fetting vp bread vpon a poste, as a marke, they are not allowed to eate, vntill they hitte it, and haue it given them by theire mothers to eate. So farre Diodorus Siculus: with whom Vegetius agreeth. The fame Vegetius faith that flinges were made d Vegetiliers either of flaxe, or of a haire, The forme was that it had two ends, the one fastened to e veschib. 3.c. the hand, the other to let flippe, being broadest in the middest, lest the stone should fall in in see. owte. Diodorus hath before expressed with what force a stone went out of a sting, EVe. & veget lap. 16 getius addeth, that they are more violent, then any arrowe: piercing head-pieces, Curaces, and other armes. The fane & Vegetius limiteth the & Vegetias space of theire reache to six hundred foote: and suth, that slinges at that distance were seene often to hitte the marke : and attributeth as much to archers. h There are, that affirme, that a leaden bullet fent out of a fling will melt with the webe- h Oneland case ment motion of the aire. Let the credit bee with the reporters. Wee have not found that experiences in our pieces, which notwithstanding force out theire bulles with fire, & that with greater violence, then any hand sling can doe. For stones to bee cast with the hand fee' Vezetius. Polybius commendeth the vie of them. i Vegetal a.c 23 10 [The armour of the Argilos] What this Argilos should meane, I fee lear-

lent in fl 13m3. Of other nations none might compare with the Balcares: of whome sand

Diodorus Siculus writeth thus: Theire armor is three slinges, whereof they have

ned doubt, and I have little to fix. Whether it come as a diminitive from acros (swift) or from a City of Thrace, called Argilos, or from any other original 1 will not affirme. Heere if the text bee not corrupted, and the word except in, or exchaunged by the negligence of some copier, it must signific a targetter. Which Alians descripteon makethevident. That there was such a Ctty in Thrace you shall sinde in k Thacydides. And that the Thracian foote for the most part were Targetiers, k Thury 14.522 I remember, I have read in Xenophon. But then a qualtion may againe arife, Galsasse,D fing the inhabitants of that City were not called argiloi but argilioi (forthe City it self was called Argilos) why the Targetier should be called Argilos, and not Argilios. The chaunge is not great. Many fuch mistakings are to bee found in transcribing of Copies. But I thinke rather there is an errour in the text; and that for two causes. First because Alian dividing the

reached twice as farre, as the Persian sling (for the Persians vied Hones, that filled the hand the Rhodians leaden bullets) hee likewise advised to arme them

with flings, and vse their efervice. The next day the Gracians furnished out 50 horse, & 200 flingers. And when Mithridates shewed himselfe againe with a thowland horse, & foure thowland archers, & slingers, and came up to charge,

forte into three kindes, Armed, Targetiers, and light-armed, and dif-

II A little flight target called Pelta] The forme of this little target is diversly a schilish the expressed by divers Authors. The Scholiasses of Thucydides giveth it a Tetragorall Suitass peles or four sided shape: with whom also immeth Suitas, Hesselms sith, Pelta is a liste Herselms target baving noc cir cumsterence, meaning, I thinke, it is not rounde. Herselms target baving noc cir cumsterence, meaning, I thinke, it is not rounde. target having noe circumference, meaning, I thinke, it is not rounde. Hee faith al. Cott is a Thracian weapon: to both which significations Suidas agreeth. The Thracia ans v sed these kindes of Targets, and often sent these Targetiers to serve the Gracians. d Thueydlib.s. d Nymphodorus (seeking to make a league briwist the Athenians and Sitalces King of Thracia) promised to procure Sitalces to send them an army of horse, and Peltasts (Tar. getiers.) Xenophon Speaking of the Thracians, that affaulted his lodging, telleth, that e Xenoph.deen e after the Trumpet sounded, and many of his souldiers came to his aide, the Thracians re Cyrilis. After the I rumpet founded, and many of his fouldiers came to his aide, the Thracians
to B Kengh. hit. I ded cafting, as their emanner was, their eT argets (Peltas) at their backes. When f Xenoph. hith. Grze li 1, 48 B Dercyllidas invaded Bithynia, Seuthes the K. of Thracefent him horse and Peltasts (targetiers) to his aide. But the Pelta, that Alian heere mentioneth, was rounde. g Suidas in In- & Suidas in the wordes, before alleaged by Lipsiue, as out of Alian called this target Aspidisce : that is a little Afpis , such as the Micedonians bore , which were without all question rounde. The invention of this Pelta is attributed to Iphicrates the Athe. h Diodhied lin, nian. h For whereas the Athenians before his time v sed larger ound targets (aspides) to be wielded, bring heavy, he provided them little targets to make them light, and quick for all service. He altered not the forme of the round. i Aemil us Pro. nese, but diminished the weight, in abating of the breadth. Emilius Probus faith, but in Ispinitum. hee made them beare litle targets (Peltas) in steede of large rounde targets (Parme,) where vppon they were ever after called Peltalta. The invention therefore of this kinde of Target is attributed to Iphicrates. For the litle targets of other k Xenop, deca. formes were long before the age of Iphicrates. Cyrus the yonger had Gracian Targetiers ped Cyriub. 1, in his army: and the Gracians at theire returne out of Persia: and likewise those, that 1 Nemop, thad lib toy ned with Thras jbulus to recover Athens out of the handes of the thirty Tyrants. All

5.19-A. Who, 1 which were before I phicrates time. Lipsius taketh the Pelta to differ litle or nothing

b.e. m. xcnoph hillo. from the Parma velitaris of the Romans, which doubtlessew us round. Polybius faith,

gree h. 3 471, E the Roman horse-mens targets (Parme) were like to Cakes named Popana,

ander, when hee fawe the streights of Cilicia possessed with a strong gard, left Parmenio behinde withall, that were heavy armed, himselfe about the first, watche taking the Hypaspista, and the Archers, and the Agrians (who were darters, as I have shewed) led on in the night toward the streights, purposing to fall vpon the watche, before hee was looked for. Hee left all the heavy-armed with Parmenio, and tooke the Hypaspiltæ with him. Ind in another place hee faith: d Alexander commaunded the Hypaspistæ first to passe the river, and af-d An, lib 17. A. ter them the Macedonian armed. Hee distinguisheth the Hypaspista from the armed. And streight after : * Three dayes after Alexander understanding that Cleitus & Glaucias were ill lodged with theire army, & neither held watche,

nor had cast a trenche for theire owne security (for they imagined Alexander marched away for feare) and that theire Campe was stretched out to a needleffe length, secretly repassed the river a little before night, leading with him the Hypaspists, and the archers and the Agrians, and the Phalanges of Perdiccas and Coenus. And in the same booke at the assault of Thebes, when Perdiccas bad engaged himselfe and brought Amyntas with his troupes in the same danger, Alexander lothe to leave them in hazard, advaunced with the rest of his army, and gave a signe to the archers and Agrians to enter the trenche, the Agemata (Livy translateth them legions) and Hypaspists hee held without. So that in all the se places hee dislinguisheth them from the heavy armed, and maketh the Hypaspists one, the heavy-armed another. I might alleage other passages out of the same author, but these will suffise. That they were not of the light armed may bee proued by the same places of Arrian. Where they are al maies dislinguished from the archers and Datters, There targets make them unfitt for slingers, and mention of slingers I find in other places. The very name she weth that they carry targets, and the great Etymologicon allo weth them spears be side their targets Whereby they are clearely exempted from the light armed It remainesh then, that they be the peltasta, which Elian heere speaketh of, especially since they were armed with target and speare, which armes hee giveth to his targetiers, and to no other, except it be to the armed. 13 Cataphracts The horsemen are divided into two kinds. Cataphracts' compleat

many other. In peruling the story of Alexander (in Arrian, the most faithfull histo-

aian of his deedes) I find noe Targetiers by the name of Peltasta in all his army. The names of Armed, of archers, of Darters, of flingers I meete often but not of Pelta-

fix. Which made mee once doubt, whether Alexander ever veed them or now. Since

vpon better consideration I am induced to thinke, though the name in the story faileth,

Tet the kinde of fouldiers, so armed, and so appointed, as Elian describeth, may easily bee

found: and that under the name of Hypalpittes. Which name albeit most usually signifie

him, that carries another mans Target , yet is it also applied to souldiers , that are neither

light, nor heavy-armed, of which kinde the Targetiers were, as a meane bet wixt both. That

Hi paspistes significeth nue heavy armed, may bee evident by the wordes of Arrian. Alex.

12 And his pike is much shorter] If it bee as Diodorus Siculus and Emilius P Soids in Po. Probus report, that Iphicrates was the inventer of the armes of the Targetier, the pike (hould bee little shorter, then the Macedonian pike. Hee gaue them little targets for great Targets, and doubled the length of theire pike, and foord. If the length of the pike were doubled, I cannot see, how it should come much shorte of the Macedonian Pike. But it may bee, they were long at first, and that afterward vse, and commodity brought them to a lesse sife, to the end the souldier should be enimble and ready at charges. But 9 Aemil. Prob, had the Poltaft noe other armes, then are heere mentioned. Hee had. And first hee had a linen Curace for lightnesse sake, and then a sword of double length to his former sword

left in 1. Come which according to P Suidas were broade, rounde, thinne Cakes.

o Polyb, lib.6.

faith, they armed there noties with frontiets and pectoralis & covers for there b xenorh deer thighes. As much hee faith of b the fix hundred ho fe that follo ved Cyrus the younger ped Crio, libri, against Artaxerxes, savingesher & anted couer for there thighes. The hir smenthemselves he giveth great Curafies, and cuiffes, and head pieces. So it appeareth that the horse were not all over armed, but onely theire heads their breafts and there foreitighes. Tet l'unarch Speaking of the Cataphrasts in the time of Lucullus, faith, their elegge, and thighes were unarmed. Concerning the Parthams Suidas, I knownot out of What Suther, hath thus: The Curaffe of the Parthian horfemen is made in this manner: The part be. fore covereth his breast, and thighes, and his hande to the fingers end, and his leggs. The hinder-part, his backe, and necke, and all his head. There are buttons made for the fides, with which both the parts being fastened, it maketh the whole horsemen seene, as if hee were made of iron. The iron neither hindreth the stretching out, nor the gathering vp of his limbs, it is so exactly sitted to the nature, and fife of all parts of the body. Likewise they armetnere whole horse with iron, except his hooses, because their cownearmor would little availe, in case theire horse miscaried. Cu. tius discribeth the forme in the Persian horsemen, v. hose furniture, hee saith, was made of plate fastened together in · Applia Parts, continued dependances of seales of iron. ppian speaking how the Part' ins seeking tottrrift Crassus, and his army, woon the sudd tine cast away the coners of their e armour, and both them selves appeared in Shining curasses, and head-pieces the Margian iron of Which her were made diring forth a flashing, and dispear sed wink ing light, and their horfes glistring in brasen, and iron furniture. Tes doit Appian in the sume place note, Appian in Par that the belly softh f. horfe, was not armed. 4 For the french horfemen, faith he, that The in Craffo followed young Craffus, when they perceived, how little they prevailed with theire staues against the sure, and unpierceable as mour of the Parthians, ligh. ting from theire owne, and creeping vnder the Parthian horses, stroke them into the bellys, and they inpatient of paine and flinging heere, and there, and treading under foote, as well their riders as their enemies, died in the place. Plutarch hath the like. The Cataphracts, besid: theire armour of desence, had a launce, or • Plutarch affirmesis: Lucullus, fatth hee, after hee fawe Tigranes his Cataphraet horsemen (whoe were of most acount) defended, as it were, by a hill, that had the ground about plaine, and broade, & the afcent (which was about fower furlongs in length) not very hard, or steepe, commaunded the Thracian, and gaule horsemen, hee had, to give vppon the flanke, and to put by the launces with their fwords: For the onely

clearly proved. In what manner the Cataphracts came to fight, Nazarius (cited by Stewechius) sheweth plainely in a Panegyrick of his. The Cataphracts, faith hee, surrechium in in whome was the principall strength of the field, vsethis discipline in char-capathb. 8, veging, After closing their files, they keepe an equalitie in moving forward to see charge, & being free from wounds, they break without difficulty any strength of battel opposed against them. They are saide to bee free from wounds, because both themselves & horses (especially before) are covered with sure armes. Theire moving must be slow, because of the weight of theire armes, which slownesse was recompensed with the violence of theire charge, which neither hor fe, nor foote was able to refift. And yet a sopian in they had another incovenience, in that, being overthrowne, or slipping, or falling to the ground, neither horse, nor man, were able easily to raise themselves againe. Such was the weight of theire armour. 14 Launciers are fuch] Launciers, faith Alian , ioine with the enemy, of fight hand to hand with the launce. And did not the Cataphracts for They did, but theire armour differed much. The Cataphracts both horse, and man, were all over armed. The horse of the Launciers was not armed, and himselfe, albeit heewere armed, get not so armed, but that many parts of his body were bare of armes. And his armour came much short of the compleate. Arrian faith that the Macedonians being launciers were not able to encounter with the Scythians, whoe were Cataphracts, both because of theire num. ber, and also of their emanner of arming. And as the Launciers armour was not so

taking in hand theire launces, ranne uppon the Komans, whoe giving a jointe

showte sprung vp presently, and striking them with their darts, slewe the first,

and put the rest to flight. By the setwo testimonies the launce of the Cataphrast is

heavie, as the Compleate, so was it more heavie, then the armour of the foote. Xenophon seemeth to signifie so much, telling of himselfe, that taking the targetiers of the front, and some out of the midst of the hollow square battaile, and three hundred chosen men, that Cherisophus had with him in the front, hee marched away with all speed to seife upon the toppe of a certaine hill. b And exhorting beneficial as a per confidence of a certaine hill. b And exhorting per confidence of a certaine hill. b And exhorting per confidence of a certaine hill. b And exhorting per certaine his fouldiers to haste, you may well, quoth Sotridas, the Scionian, talke of haste, that are on horseback. I, in the meane time with this heavie target, am scarce able to marche. Xenophon hearing this, streight dismounted, and disranking Sotridas, tooke away his target, and with it on his shoulder continued his hast in marching. By chance hee had on at that time a horsemans armour, where with although he were overpressed; yet slacked hee nothing of his pace. The rest of the souldiers beating and reviling Sotridas compelled him both to his target, and place againe. At last they gained the hill, they purposed, and made the enemie abandon the nether ground. Xenophon was heere overpresed with the horsemans armour. If it had beene but equall in weight with a

foote mans, hee might, as well have endured it, as the rest. Plut arch sheweth likewise the Plutarch in Phie

strength of the Caraphractis his launce, and it alone hee is able to vie either in defence of himselfe, or annoying the enimie: being by reason of the weight and harshnes of his furniture like a man shutte, and looked vp in a wall, Hesherto Plutarch. Like wife the Part' sin Cataphracts, albeit they of above, and arrows, yet they 2 Pho la Anna DAd alla launcae Mich Sali lalamente la

taphract. The armes, that the Launcier bore are acjurious of a bijoins peaking of termeth Acrobolisis by another word flowing from the same fountaine. the armes of the Roman borfemen; who wreteth thus: The armour of theire horsemen is at this day like the Gracian. Of old they had noe curaces, but fought 17 Tarentines They are so called of a Citty in Italy Tarentum by name, the in short gownes girded to them. By reason whereof they were ready, & actine inhabitants whereof, that were hor semen, weed this manner of fight. But he maketh two to alight from, and gett vp quickly, on theire horses. But their fight was daungerous with the enemy, because they wanted armes. Theire staues had two incommodities. For, being made slender and quivering, they neither could touche the mark, they aymed at, and most of them, shaken with the motion of the horse, sell out to bee broken, before the head touched, or fastened vpon any thing. Ioyne, that, having no iron point at the butt end, they ferved but for one stroke onely, and that at the first. And yet the head being broken of, the remnant of the staffe was of noe vie. The targets they had, were made of oxe-hyde in formelike to cakes named Popana, which are vied in facrifices. And they were neither fitte to encounter the enemy, by reason they had noe stiffnesse or fastnesse in resistance, and being resolved, and soked, or putrissed with raine, they could not bee any thing worthe. Finding these inconveniences by experience, they quickly chaunged for the Græcian armour; In which the first stroke of the head of the staffe is certeyne, and worketh the designed effect, by reason of the forme, which is not quivering, but stiffe and sturdy: & likewise turning foreward the butte end, which is armed with a sharpe point, they might therewith fasten a found, and forcible blowe vpon the enemy. The like may be faid of the Targets, which both in charging, and defending, have a sure & vnfailable vse. Which they noe sooner saw, then imitated. For the Romans, if any other nation, are good to change their failions, and to choose that, which is best, wheresoever they finde it. The Launcier then had a Curace, a head-piece, a launce, and a fword for his armes, and this was generall in Launciers; but some had besides a target, and were therefore called targetters. The Launciers were called in greeke Doratophoroi, or Xestophoroi : two feuerall appellations in shewe, but fig. nifteng in deed but one thing, the one being derived from the matter, the other from the Anaman forme of the launce. Doru, as I fast before, fignifieth wood: and because all the Launand Lylin and ciers armes excepting the launce, were of other matter, then wood, the launce was called

Doru, (of the wood) and the Launciers Doratophoroi. As for Xyston, or Xeston

(for they signify one thing) it commeth of the verbe Xuo, or Xco to shaue, or polish (as

our ionners doe) and the launces. being made of wood shaven, or polished, are named Xysta,

or Xesta, of the forme (as I said) that is given them by shaving, and the Launciers, that

beare thefe launces, Xestophoroi, or Xystophoroi. Ind heere I am once so note for all,

that wee are not to preffe wordes according to the proper fignification of theire primitines,

from whence they are derived. For considering there are more things, then names of things

(as Logicians fay) the most copious language, that is cannot give proper names to all. Heereof

come the Vendes of dingers from frations . And have from

kinds of Tarentines; one, that ever fought a farre of with darts, and never came to hand with the enemy, the other, that after a dart or two cast, came close up, and fought hand to hand. Livy peaketh of a third kind of Tarentines , who weed in fight two a Liv deed, 4. horses at once made fast together, and one being weary, leaped upon the back of the intition 18 Some vie darts a farre of] Of the manner of fight of these horsemen, the pas. face of Xenophon is worth repeating. d'After these things done, futh hee, the aide d'Xenoph Wift. of Dionysius (which hee sent the Lacedemonians) arrived, being more, then twenty Gally's. They brought French, and Spaniards, and aboue fifty horfe. The next day the Thebans, and their confederats, embattailing their earmie, and filling therewith the whole plaine even to the fea-fide, & to the hills, that lay about the City (of Corinth) destroyed what soever, might scrue to any vse. The horsemen of the Athenians, and Corinthians, seeing the strength, and multitude of the enemy, came not neere vnto them : but the horsmen of Dionysius, albeit fewe in number, galloping heere, and there, dispersedly, and putting spurrs to theire horse, charged them with their darts, and in case the enemy followed, they returned with all speed, and then turned againe, and threw darts afresh. In doeing these things they vsed to alight from theire horse, and rest themselves, and if any of the enemy singled out to fall vpon them, leaping quickly againe to horse-backe, they fled; and being pursued any distance from the army, as soone as those that pursued them retired, the Tarentines followed, and plyed them with their darts, and put them to great distresse: forcing the whole armie to advance, and retire, as they list themselues. So farre Xenophon. Another example I will adde out of Livy of the Numidians , whose manner of fight is all one with the Tarentine manner. In Ligu- tindental ria faith hee, nothing worthy of memorie was done a long time. At the end of the yeare all things were brought to extreame hasard. For both the Consuls camp, being affaulted, was hardly defended, and not long after, when the armie was ledd through a forrest, the way whereof was streight, and narrowe, the Ligurians possessed themselves of the mouth of the straights. Through which when the Consull could find no passage, hee turned about his armie, and purposed to reductit, the way he came. But the mouth of those straights was likewise possessed by a part of the enemies forces. And now the remembrance of the Defaster of Caudium presented it self not onely to the minds, but even almost to the eyes of euery man. There were wellnigh eight bun-

and a nead thruit out at length. I ney purpolely augmenting this contempt T) Vt seeing every Phalange conteineth an vniting of bodies, offices of comflid from their horses, and dallied, and sported, to bring the enemie to a gaze. Dmaund, orders in place, a Convenient number of men, and wordes of Di-Wherefore the enemy, which at first were intentiue, and ready for a charge, rettion aswell for daily exercise, or trayning, as for true fights, It seemeth necesbecame gazers on, and the most part ynarmed themselues, & sett downe vpon fary to deduce every of these things into perticularity. The first labour there. the ground. The Numidians rode vp neerer, and then backe againe, and by fore in the art T actick is for a Generall out of a multitude, that cometh to hand little, and little, gott to the skirts of the forest; as if theire horses, being resty, confused, to choose the fittest men, and dispose them into convenient places had caried them forward against their ewills. At last, putting spurres to, they (that is to order them into files, and bodies) and of the whole number to probroke through the midft of theire enemies gards, & entring into a larger field, portion a reasonable levie, & fitting the service in hand. For to dispose and they fett fire on all the houses next the way; then burned they the next vil. enable an Army, skillfully to march, to encampe, & to embattaile, is a matter lage, and wasted, and filled, all things with fire, and sword. The smoke first of no small consequence. In asmuch as we often find mightie Armies through sene, then the cry of the people affrighted, lastly ould men, and children, their disorder to have been defeated by + a handfull of men wel disciplined & flieng for fuccor, raifed a tumult in the campe. Therefore without counsell or exercifed. Wherefore Aneas defineth this art to bee a science of warlike motion: commaund every man of himself ranne to the defence of his owne, and in a. Polybius, To be a skill whereby a man taking a multitude serviceable orderethit into files, moment both the enemics camp was forfaken, & the Confull, delivered from and bodies, and instructeth it sufficiently in all things pertayning to warre. his siege, came to the place intended. By these two examples the kinde of fight, that

Notes.

1 HE first labour] After prouision of armour followeth choice of men. What men, and out of what climats, and of what profession, and of what age. and of what constitution of body, and of what education, are to be chosen, because Alian referreth to the discretion of the Generall, not setting downe any particular, I will likewise pase over, noting onely some places, where hee, that is disposed to feeke, may finde the cir-

cumstances of choice of Souldiers. Xenoph. Cyrop.lib. 1.32. A.B. Polyb. lib. 6.406. C. Et Lips. ad Polyb.lib.t. Dialogo.2.3.4.5. Veget.lib.t.cap.2.3.4.5.6.7. Et Stewechius ad bacomnia cap. 31.

2 A reasonable leuy and fitting the service] Levyes weto be made according sa Imap. 4 to the warre, which is undertaken. The enemie is not alwaies of one flrength. Sometimes 14. the forces, against which wee are to lead our armie, are more, sometimes lesse. The Ro-

mans, if the number of enemies were not very great, vied but a a Confular Armie, which a popo Elizia confilted of two legions of Romans , and of w many foote of theire Allies ; when greatest, popula, 1.59.

onely is yned two Consular armies together. And for Allies theire foote, as I said, was C equall with the Roman foote, theire horse were treble as many, and the Romans having three hundred hor fe to a Legion, the Allies had nine bundred. Tet in case of great pays the sage necessitie, weereade, that the number of the Legions was increased in a Consular C

armie. Polybius reporteth that, a little before the battaile of Canna, the Con-

fuls Lucius Amilius , and C. Terentius , had allowed in theire armie , which they led

against Anniball, eight Legions, which never was done before. b Alexander booksed to

Die. dend 3. had beene; and you shall find in other places of Divy, and Polybius, they did v sully, as B. 1 13 C.B Pro-hyblib 3-24 B. also in Casar. Cefar de bett. 19 After 49 Abstan-415

a Park th. 3. the fe darters one hor fe-backe maintained, may he perceived, which was "not to come neer

the enemy, but to keep a loofe, and lett theire darts fly. Besides not to observe any order in files, or rankes, but straglingly to gallop the field, seking by theire disbanding to tolle

she enemy out of his strength, and so to worke theire advantage. And albeit in the

second example, the Numidians weed not theire darts, yet they would have done it if need

19 After they have spent one or two] These darters on horsebacke differ from the other before mentioned, because at the last they ionne, and fight hand to hand with the

enemy; which the other did not. And what fight they with all? not with launce; for

then should they be Launciers, of whom wee have spoken. But they fight with battel-axes,

I hele, faith hee, at first cast light darts a farre of, and afterward approaching,

joyne with the enemy, fighting with battell-axes, or fwords; which kind they

20 The horsemen, that vie bowes] I need not alledge any thing to shewe that the Scythians were good archers. It is knowne to any man, that is not ignorant of Hi-

flory. I will enely note, that in flieng from the enemy, they harmed as much, as in fal.

ling on. For as they fled they turned half theire bodies backeward, and shotte at him,

that followed, and expected noe fuch thing. Of which fishion of fight Plutar ch gineth

this indeement. . The Parthians, faith hee, in theire flight shoote backward, &

doe it best of all other, except the Scythians; the invention being witty, both

to faue themselves by that defence, and also to take away the shame of flight.

call light-horsemen.

A Aron ia noin swordes, and such other short weapons. Suidas assirmathis, alleged by defectives:

were, the principall heads of the art of warre, Marching, Incamping, and embattailing; to which heads all other may very well bee referred. And of these three Alian handleth in this treatise but two, namely embattailing, and marching : of embattailing, so much, as perteineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure, which shall yeald most advantage against the enemy, that meeteth you; excepting that hee shortly toucheth the marshalling of baggage in your marche. The other considerations of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, thefe, I say, and such like, hee toucheth not in award. And for the skill of encamping, which comprehendeth the feating of your camp, and provision of all things belonging thereto, as also the siege, and defence of Citties, and fortreses, hee likewise passeth it over with silence, as a thing not incident to his purposed discourse. 4 A handfull of men well disciplined and exercised] What exercise doth

for the making of good foul diers, experience of former times will teache. It hath been the e Vegeubb. 1.ca. manner of all famous generalls to bring theire fouldiers to perfection by exercise. Vegetim faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier serue never so many years, so long, as hee is vnexercised, hee shall bee still a raw fouldier. The knowledge and science of armes maketh a fouldier, which is not gayned but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) arifeout of anumber of actions precading, so can noe man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his study and labour therein, and upon the foundation of practife raised the frame of sound and perfect skill. Noe man is naturally borne a fouldier. One may more incline to warre then another, but the skill commeth not ? Placia Pelor without industry and paines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke

men, but they are to bee found in all places, where youth is bred up in shame

ofvice, and boldnesse to vndergoe perill for vertues sake. Euretas was a river e Place Lyon, neere Lacedamon; Babyx and Gnacion two rivers within the same City. The

Lacedamonianswere accounted the most valiant people of Greece. And Plutarch heaketh thu of the victory, which the Thebans had against the Lacedemonians; The

Thebans, which till that day had no reputation of valour, but afterward by exercife, & vse of armes, under Epaminondas, and Pelopidas, became the bravest souldiers of Greece:

Not walke was the faieng of Pyrrhus to his muster-master : choose you fielder

Test for the dictories, that have deemed by first and first the second of fed, against amultitude unskillfull, and untrained, I need, say nothing. Histories are plentifull with fes therein. I will onely recite one example wherein the difference may bee seene not between skillfull, and unskillfull, but between skillfull, and skillfull both enured to labour, and both brought up under the same practise, and discipline of Armes. At what time, after the death of Alexander the great, his chiefest Commaunders fell at oddes emongest themselves; and sought every man to establish himfelf in the possession of his Conquests, it chaunced, that Antigonus, and Eumenes came together in two fundry battailes. In the first Antigonus had in his army aboue 28000 foote, 8500. horfe, & 65. Elephants; Eumenes lesse foote, 17000 in all (but emongest them 3000. Agyraspides, whochad served in all Alexanders battailes, & were invincible, & strok a cat feare into the enemies harts) & about the number of hor (e, his enemy had, & So. hants: 2 When the foote came to toyne, faith Diodorus Siculus, the fight continewed a Diodor. Sicul a dodwhile, & at last, many falling on either side, Eumenes his foote had the better bereason of the valour of the Macedonian Argyraspides. They, albeit they wae stroken in years, yet in regard of the manifold perills, they had been in. carelled in courage, & skill of fight, in so much that no man was able to withfand them. And therefore being but 3000. in number, they were notwithstan. dieg fett against the enemy, as the strength of the whole army. In the other bat. take he heaketh of their age. At that time, faith he, the yongest of the Argyraspi- b Diodor. Sich de were noe lesse, then 60, years olde, or thereabout; the most of the rest about 76. & fome were elder, al of the vnmatcheable in skill & readincise of fight, &

ftrength of body; fuch was theire dexterity, and courage gathered in continu-

ance of dangers, which they had passed. Afterward rehearsing the battaile, he saith:

The Argyrafpides ferring themselues close, and with lively force falling vpon

the enemy, killed some, and put other some to flight. And sought against the

whole Phalange of the enemy with irrefiftible fury, not loofing one of theire

owne men, & yet through skill & manhood flayeng of the enemy aboue 5000.

&couted theire whole foote, which in number were many times more, then

themselves. Thus writeth Diodorus Siculus of the olde practised Macedonians: who yet

fight not against straungers, or rawe souldiers, or such, as were newly brought into the

field, but against men of their owne nation, that had long handled armes, & wonne many

villories, & been instituted, and trained in the same discipline and course military, that then felues had been before: Such difference long practife, and experience wrough in

the one against the other.

were, the principal heads of the art of warre, Marching, Incamping, and embattailing; to which heads all other may very well bee referred. And of these three Elian handleth in this treatise but two, namely embattailing, and marching : of embattailing, so much, as perceineth to forming of a common Macedonian Phalange; of Marching, no more, then belongeth to embattailing in a march, that is to ordering of your men in that figure, which shall yeald most advantage against the enemy, that meeteth you excepting that hee shortly toucheth the marshalling of baggage in your marche. The other consideras tions of marching, as laying, or avoyding ambushes, sending out to discouer, when to march by night, when by day, how to deceive and avoyde the enemy lyeng neere, remedies against horse, against shotte, against multitudes, passages of mountaines, of woods, of rivers, of plaines, of drye, and fandy places, thefe, I say, and such like, hee toucheth not in award. And for the skill of encamping, which comprehendeth the feating of your camp, and provision of all things belonging thereto, as also the siege, and defence of Citties, and fortreses, hee likewise passeth it over with silence, as a thing not incident to his purposed discourse. 4 A handfull of men well disciplined and exercised] What exercise doth for the making of good fouldiers, experience of former times will teache. It hath been the time faith very well, It is not length of life, or number of yeares, that teacheth the art of warre, but continuall discipline & meditation of armes. Let a souldier serue never so many years, so long, as hee is vnexercised, hee shall bee still a raw fouldier. The knowledge and (cience of armes maketh a fouldier, which is not gay-

c vogethis, rea. manner of all famous generalls to bring theire fouldiers to perfection by exercise. Vegened but by action. As long as a fouldier handleth not his weapons, hee is noe Actor, but a looker on. For as all abilities in artes (which are called Habits) arifeout of anumber of actions precading, so can noe man atterne to a perfect knowledge of armes, till hee have with care, and diligence, employed his study and labour therein, and woon the foundation of practife raised the frame of sound and perfect skill. Noe man is naturally borne a fouldier. One may more incline to warre then another, but the skill commeth not Pha in Pelor without industry and paines. d Plutarch faith, that it is neither Eurotas nor the place betwixt Babyx and Gnacion, that bringeth foorth valiant and warlicke

men, but they are to bee found in all places, where youth is bred up in shame

of vice, and boldnesse to vndergoe perill for vertues sake. Eurotas was a river

Lacedamonians were accounted the most valiant people of Greece. And Plutarch

Beaketh this of the victory, which the Thebans had against the Lacedamonians; The Thebans, which till that day had no reputation of valour, but afterward by exercise, vse of armes, under Epaminondas, and Pelopidas, became the bravest souldiers of Greeces

Not milite mee the Giona of Develope to his million and an analysis of

e Placia Lyon. neere Lacedamon; e Babyx and Gnacion two rivers within the same City. The

sed, against amultitude unskillfull, and untrained, I need, say nothing. Histories are plentifull with Ges therein. I will onely recite one example wherein the difference may bee seene not between skillfull, and unskillfull, but between skillfull, and skillfull both enured to labour, and both brought up under the same practife, and discipline of Armes. At what time, after the death of Alexander the great, his chiefest Commaunders fell at oddes emongest themselves; and sought every man to establish himself in the possession of his Conquests, it chaunced, that Antigonus, and Eumenes came together in two fundry battailes. In the first Antigonus had in his army aboue 28000 foote, 8500. horse, & 65. Elephants; Eumenes lesse foote, 17000 in all (but emongest them 3000. Argyraspides, whoe had served in all Alexanders battailes, & were invincible, & strok a great feare into the enemies harts) & about the number of hor fe, his enemy had, & So. Elephants: 2 When the foote came to loyne, faith Diodorus Siculus, the fight continewed a Diodor, Sicul a good while, or at last, many falling on either side, Eumenes his foote had the better 180,196.7. by reason of the valour of the Macedonian Argyraspides. They, albeit they were stroken in years, yet in regard of the manifold perills, they had been in, excelled in courage, & skill of fight; in fo much that no man was able to withstand them. And therefore being but 3000 in number, they were notwithstan. ding fett against the enemy, as the strength of the whole army. In the other bat. taile he speaketh of their age, hAt that time, Saith he, the yongest of the Argyraspi- h Diodot. Simb des were noe lesse, then 60, years olde, or thereabout; the most of the rest about 10,19,693 70. & some were elder, al of the vnmatcheable in skill & readinesse of fight, & strength of body; such was theire dexterity, and courage gathered in continuance of dangers, which they had passed. Afterward rehearling the battaile, he saith:

The Argyrafpides ferring themselues close, and with lively force falling vpon

the enemy, killed some, and put other some to flight. And sought against the

whole Phalange of the enemy with irrefiftible fury, not loofing one of theire

ownemen, & yet through skill & manhood flaying of the enemy about 5000.

& routed theire whole foote, which in number were many times more, then

themselves. Thus writeth Diodorus Siculus of the olde practifed Macedonians: who yet

fought not against straungers, or rame souldiers, or such, as were newly brought into the

field, but against men of their owne nation, that had long handled armes, & wonne many

victories, & been instituted, and trained in the same discipline and course military, that

they themselves had been before: Such difference long practise, and experience wrought in

the one against the other.

What a file, or Decury is, and of how many

The number of a file is diverfly given, * for fome allow it eight, fome twelue, and fome fixteen men. Wee for this time will retaine the number of fixteen, both because that number is proportionable to the indifferent length of a Phalange..., and also, if vie require at any time to double the depth thereof, and to give it thirty two men, or to leffen, and contract it, and make it but eight, neither of both shall hinder the service of the light...amed behinde, * for whether they vie Daris, or slings, or Arrowes, they may caselie with their slieng weapons overreache the depth of the Phalange...

Notes.

N Ext after arming, and choyce of souldiers, it followeth to put them in order for service, that is first to file them, then to band them (which is ionning of sites) and lastly to embattaile them, which is to make a Phalange. Of these in the follo-

wing chapters.

I To make files] The Tacticks have not expressed the precepts of this arte all in the same wordes. I file is heere called Lochos, the fignification whereof is divers. Sometimes it is taken for an a Ambushe, and Lochan signifieth to lye in Amthe make bush : it signifieth beside a number of men , that are of one body, as it were , and vnder one commaunder, who is called Lochagos, and Lochizo is to fett in files. The number of this body hath beene diversly taken. The Thebans Lochios Hieros b Payson Wh. I. first instituted by b Gorgidas, or as other say by c Epaminondas, consisted of three in Gorgida.

E Ancia diposit hundaed men. The Lochos of the l Lacedemonians of five hundred and twelve. Both Below, Kenophon in his returne out of Persia telleth, that the number of the Lochoi of the e Konsphale in Gracians, which hee ledde, was almost a hundred armed men. And when they chose extraordinarie men to preserue the Plasium (a hollow forme of square battaile f xacepadece where in the Gracians marched) from breaking, they appointed fix Lochoi, of a pol Critic, I hundred a piece, for that purpose, and Commaunders to leade them. And after heereckoneth seventy men to a Lochos. And in the first booke of Cyrus his expe-2 Knoph de co- dition, heetelleth & of two Lochoi of the armed of the Regiment of Menon, that were staine by the inhabitants of Cilicia, and counted them a hundred men. Cyrus in the same Xenophon commaundeth his Lochos to bee made of twenty foure men. But the Lochos, that Alian heere feaketh of is a leffe number, namely h Arrian lib. 7. fixteene, which was the file of the Macedonians, as appeareth by h Arrian, and Polyb. 12. 17. Polybius. Albeit Arrian calleth it not Lochos, but Decas; and Polybius the depth of the battaile. This number of fixteene was vied by the Graciansalso before King k Xmooh, hist Phillips time, as appeareth by Kenophon in his historic of the Gracians. And likewise Frech 4.515.E. by Thucydides, who reporteth, that the Siracufans were fo ordered against the Athenians. Leo faith it was the manner of the auncient warriers to make a file of fixteen, & calleth it 4 Tetragonall number.

2 Sonne allow it eight, some twelue] The Lacedemonians made the depth of theire battaile. Sometimes eight men (for a file is it; that measureth the depth of the staile) and so fought with theire enemies. They dides with estimate the lacedemonians, saith hee, were not alwaies ordered in depth alike, but as theire Lochagoi (they were commaunders of fiue hundred and twelue a piece) thought good, commonly notwithflanding the depth was of eight a piece. * Xenophon also writeth, that Deryllidaes the Lacedemonian, being to fight with Tilfapherus; and Pharnaba: us, ordered his Phalange into eight. The same that the proportion was belde by "Massippus the Lacedemonian against the Corvessis.

and by = Clearchus the Lacedemonian against his enemies. Xenophon faith, that Thras bulus the Athenian . Calieng out of Pyraum against Pausanias the Lacedemonian King ran. a Polyzo Bb ged his men into eight. His wordes are : b When Thrasybulus and the other ar- b xemph, hit med lawe these things, they quickly gaue aide to theire owne people, and gella 177 CD put theire armed in order eight deepe. Paufanias being hardly layed vnto. and retiring foure or five furlongs, commaunded the Lacedemonians, and theire Allies, to refort vnto him, and there casting his men into a deepe Phalange, ledde against the Athenians. Out of which words wee may note; that the Lacedamonians ob ferved not alwaies that order of eight deepe, but varied according to place, or other circumstance. Tet ordinarely they gave but eight to a file, or to the depth of theire Phalange, as Thucydides voitnesseth before. The same Thrasphulus voith his except. 1471. complices entring the bale Citty of Athens called Pyraum to free his countrie from CB. bondage of the thirty tyrants, having but a fewe with him, possessed the court, which led to the temple of Diana, called Munychia, and being affaulted by the garrison of the Lacedæmonians, ordered his armed men into ten deepe, and the light armed behinde them. The tyrants, and theire followers stood in battaile fifty deepe. de the battaile of Leutira the Lacedemo d xonoph. his.
n:an armed mere twelue in depth, the Thebans fifty. Mexander the great leading his entitles. B armie against Clitus, and Glaucias, the way being so narrow, that no more then foure might marche in front, made the depth of his armie a hundred and twenty. fund the f Xenoph de ex-(ouldiers that X cnophon brought backe out of Persia, When they purposed to sacke Byzants- 319.D um, put themselves without commaunde in order of fifty deep?. In the text is fifty deepe, but the margent hath eight : which I take to bee the truer reading, because Xenophon faith, the place was faire to fett a battaile, being voide of building, and having an even plaine. And it was not the manner of the Gracians to make a Phalange fifty deepe whe se there were extraordinarie occa sion. E In the battaile of Delos betwint the Athe & Towy & Eb. 4: nians, and Thebans, the Thebans were five and twenty in depth, the Athenians but eight. The fame h Athenian were eight in depth against the Syracusans. So that the h Thuryd Who. depth of eight was much wfed among the Gracians. How be it I find not , that they cal-458.A led a file of eight by the name of Lochos. Cyrus the elder made his files of twelue : xcooph Cyr men, and the leader thereof hee called dubinudaexos, and dinadaexos, and the file it felfe de-10.3.78.A cas, which in signification albeit it importeten, yet wee must retain the word, as it is vied, and not fly to the originall of the Etimologie, as I noted before upon other occasion. But Elian maketh his file of fixten. His reason followeth.

3 For whether they vie dares &c.] The file being fixten in number, she foldiere there in every one having after-diffrance from other three foote, take up in the whole depth fourly eight foote, and being doubled to thirty two men, they take up ninety fix foote, which amounteth to thirty two yeards. That bowes and fings eafilie out reache this diffance, appeareth by ty egetius, before by mee alleaged, who faith, they frock their this diffance, appeareth by ty egetius, before by five alleaged, who faith, they frock their this dare fix hundred foote of, which in our account by feves, is ten feve. Of the dare and man may rather doubt, which notwith flanding with an exercised arms is first much fourther, then thirty two yards. I Lipfies written, that a dart was uffally cast the fource hundred foote, which amounteth to a hundred thirty three yards, or as ween flowing measuretis fix fix core and odde. The reason why Litius placed the light arms do be

bind wee shall see beere after in fitt place.

D 3

The order and parts of a file or Decury.

CHAP. V.

"THE best man of every sile is the first in place, and hee, that leadeth the file, who is also called the sile. Leader, the Commander, & the fore. Hander, The last man of the file is called the Rear-Commander, or bringer-up. The whole sile its left's termed 'a verse, and 'a Decany, and of some 'an Enomory. Yet there are, that hold Enomoria for the sowerth parte of a sile, and the Commander of an Enomory they call Enomatarcha, and two Enomaties they take sor a Dimery, & name the Commanunder thereof Dimerines, to that the half sile is said to bee a Dimery, and the Commanunder Dimerines, This man is the last of the file. Hee, that standed next behinde the file-leader, is named a follower, and the next after him a Leader, and the next after him a gaine a follower. So that the whole sile_consistent of Leaders, & followers placed successively one after another. It behough the file-leader to be emore sufficient, then the rest of the sile. and next him the Leader of the half-sile, or bringer-up. They define a sile to bee a Rome of Sollowers placed according to their eworth successive a sile to be a Rome of Sollowers placed according to their eworth successive a sile to be a Rome of Sollowers placed according to their eworth successive as the sile after a sile the deader.

Notes.

HE best man of every file. Why the file-leader ought to beethe best man of the file many reasons may bee given first because hee commaundeth therest. And as in all other things hee that is to rule, and governe another, ought to have more knowledge, then hee that is commaunded, and governed, fo is it in matter of warre. Further, as his skill, so his valour, ought to bee most: that his example may incourave and incite the rest. Which is the cause, that other commaunders also are placed in front. and in the eye of the fouldiers that theire valour & forwardnes may bread an honelt emulation in the fouldiers to doe, as they doe. Befides, the first place is most befeeming him, that best deserveth, and the more valiant a man is , the more hee desireth to showe it in the face of the enemy, thereby to winne himself honor, and reputation. Furthermore, hee may doe best service in the front , by entring into the enemies battaile, and making way for the rest. Not walke a sworde, who seedge maketh speedy passage into the thing, it cutteth, and draweth after it the reft of the iron, bee it never fo blunt. In the front, the media Peranke of the file leaders give the push to gaine the field. Which reason I thinke lead 2 Gorgides the first institutor of the Theban Hieros Lochos, not to make an entire troupe shereof apart, but to place it man by man in the first ranke of the Phalange, Lastly the fight of the file leaders, being the choice of the armie, both for flature, and resolution (for & Asim cont & Go Alian would have them) breads a terrour in the minde of the enemy. Who, seeing two and 577 such gallants in the front, have cause to imagine that the rest of the armie, which they see not, is like to those they see. And, being never so valiant, they had rather have to doe with weake, and relenting then flout, and resolute adversaries. As at the battaile of Canna & Annibal an forced one, that brought him newes, that the Confull had commanded the horse men to alight, and fight one foote, how much rather would I, quoth hee, hee had delivered them bound into my hands. I have heard many hold opinion, that the manner of the Gracians, to bring theire best men first to fight, is contraDimery

The last file it felf are, that an Enomi name the Dimery. that ftan him a La confifter

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ry to the institution of the Romans, who held the Triary (theire eldest, and best souldiers) in the rear, and brought them not to ionne, till both the Haftati, and Principes were beaten, or retired. But if wee consider the diversity of both theire embattailings, wee shall fee noe great difference, or at lest wee shall fee, that the reason of placing their-best men was not much different. The Gracians in framing theire foure-fold Phalange made in length an even front of a to 24. files. The files were 16. deepe, and the best men therefore in front, because being placed in the midst, or in the reare, there would have beene no we of theire valour, and the Phalange might have beene broken, before it had come to theire turnes to fight. The Romans contrary-wife , in ordering a Legion , made many maniples, and gave the front to the Hastati, the middest to the Principes, the reare to the Triary. Nowe the Triary being ordered in the Reare, might at the beginning bee brought to fight in Front, if need were; being noe need, they kept theire place, till their Generalls found it fit to call upon them. So then this is the difference. The File-leaders of the Gracians had the Front, because otherwise in so deep a body, as the Phalange was , they could not have come to fight : The Triary might alwayes have beene imployed in Front, in flanke, or in the reare, as pleased the Generall. And that the Romans also in theire severall Maniples placed theire best men in Front, I cannot doubt. There stood the Centurions, which were the leaders of the Maniples, and in reason were to bee seconded with the hest men under theire commaund. C.Crastinus may serve for an example whoe being noe Centurion, out an Evo. Control belle cate, in the battaile of Phar faly between Cafar & Pompey, bidde his Manipulers (they were of the Maniple, which hee once commaunded) to followe him, and faid hee would make his Generall giue him thanks aliue, or dead. Tet must I confesse, that the front was not the proper place of the Evocates. But hee chose the front , and held it a place worthy of his valour. It is faid of b Casiline that, when hee fought with C. Anso. b salue de com mis, hee placed in the front of his army, all the chosen Centurions, and Evocates, and besides of common souldiers such, as were best armed. Livy spea Living dead. king of a fight betwixt the Romans, and the Latines, and describing the forme of the Roman battaile, after hee had limited the place of the Hastati, & Principes, writeth thus of the Triarij. After the enfignes (hee meaneth the Standards of the Legions) not the Enfignes of Maniples, were ten other Maniples; whereof every one had three Enfignes. The first Ensigne led the Triarij, ould souldiers of tryed valor, the next the Rorarii, not foe well esteemed for strength in either age, or deeds, the third the Accensi, a troupe of lest trust, which was the cause, that they were cast in the reare. The Accensi were put in the reare, because there was noe great opinion of theire valor; the Triary had the front, because they were ould fouldiers, and had beene sufficiently tryed. Soe then in dividing of their armie into small bodies, or battailions the Romans differed from the Gracians: in placing the best men of theire maniples in front , they observed the same manner, that the Gracians did in placing theire fileleaders in the first ranke of the Phalange.

2 A verse I have translated stichos a verse. The more vsuall signification is a rowe of any thing placed orderly. A Soe Xenophon appliesh is to trees, which were planted a xenop.in Oe. orderly one after another ; and Eustathius to the standing of dauncers one after another in conomisto. C. depth even as our fouldiers are placed one after another in file. Iulius Pollux alfo acknown I un Pollux in ledgeth, that there were files , and ranks in Choro , that is in dannees uppon the flage. But Suidas faith it was commonly taken for a line, which was read from the left to right & Suidas in ver hand. And to fay the truth a verse, as wee read at this day, and as they read, when Alian Prote this treatife, rather resembleth a ranke then a file; because in a ranke men fland Side to side, as words doe being placed in a line. Terbecause the word is received by wiein that other sence, wee must like wife admitte the same.

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3 A decury] This in Greeke Alian calleth Decania, a word, which in this sence I find in no other Author, then in him, and in Suidas- Xenophon calleth it Decas: magnin frat. [6e doeth b Vrbicius and Arrian, and likewife Hefychius. d Leo calleth ir decarchian

4 An Enomotic] The word cometh from omnymi to sweare, not of omos a d Leo cap. 4 S. shoulder, as Robortellus, and Patricius immagine; of whom the first translatethit in la-Parisins paralle, tine Intergutio, the other in Italian Spalaggione, as it were a backing, V pon this conmike.part. 14173 ceite, I thinke, because in a file the whole number standeth one at the backe of another. & part 2,154 e Suidas faith: Enomotia is a body militarie amongst the Lacedemonians of 32 men, and is foe called, because they take theire othe together, not to forfake f Erymol mag- the place affigned them in battaile. With whom agreeth the great Etymologicon; man in Roomers and 6 Hefychius likewife; who termeth it a body militarie, that take than othe and sweareth by the facrifice, which is offered at such time, as they goe into the field. And Gurely you hall not finde the word Enomotia applied to other fouldiers, then the Lacedemonians, or elfe to them, that the Lacedemonians commanded: untill it was afterh I I Pollus lib ward taken up by the Macedonians. And Iulius Pollux exprelly noteth, that Moira and Enomotia, are proper appellations of the Lacedemonians, given to certaine of theire militarie bodies. Albeit both the text bee corrupted in Pollux , having Eunomotia for Enomotia, de the interpreter hathworse traslated it, redring Enomotia, militarie discipline, Moira a duty. As the Lochos is great, or little, so is the Enomotia. The Lacedemonian Enomotiawas 32. men, the Lochos being 512. but the file of Alian being 16. and the Enomotie noe more, then the fourth part of a file the Enomotie must conteine noe more then foure men. One of every of these four must bee a commander; who is called Enomotarcha, or the commander of that Enomotie. So that in the whole file, consisting of 16. there ought to bee foure Enomotarchas. Where they should stand in the file, is a question. Patricius maketh the file-leader the first Enomotarcha, the fift man, the fecond, the ninth man, the third, & the 13 man the fourth : excluding the bringer up, whom notwithstanding hee acknowledgeth to bee the second man of the file, and in dignitionext to the file-leader. I am of another opinion : and yet allowe the places of the first , fift , and ninth , but thinke the bringer-vp i Artian confirmeth my opinion : who writeth thus: Alexander returning to Babilon, found Prucestes newly come out of Persia, bringing with him 20000. Persians. Then commending the Persians

for theire obedience in all things to Prucestes, and Prucestes for his care, and diligence, in ordering them, hee reparted them into bands according to the Macedonian manner. Over every file hee appointed a Macedonian file-leader to command, and next a Macedonian dimærite, and a Decastater, so called of the paye hee had, which was lesse then Dimerites, and more then the common fouldiers; then twelue Perfians, and last of all the file a Macedonian. who also was a Decastater. So that in the whole file there were foure Macedonians, three, whose pay was more, then the common fouldiers, and a fileleader the fourth, and more over 12. Perfians. So Arrian. Out of which wordes wee may learne first the number of the Macedonian file, which consisted of 12. Persians, and 4. Macedonians, in all 16. the number , that Alian requireth in his file. Next, that the Enomotarchs, or commanders of the foure parts of the file, were likewise 4. Lastly that the bringer-vp was one of the foure by expresse words of Arrian, which is contrarie to the opinion of Patricius, and whereas Arrian termeth the third Enomotarch. Decastateros of the pay, heereceived, it is to bee understood, that Stater was a piece of coine, of the weight of foure dragmes of Athens whereof the

Enomotarch had ten by the moneth. The dragme was of value seven pence sterling, and the Stater, conteyning foure dragmes, two stillings and four epence sterling; and ten of them were valued at twenty three shillings and soure pence. Which was the pay of the fecond Enomotarch, and of the bringer up, as Arrian affirmeth.

5 And the Commaunder Dimærites] About the Dimerite Arrian, and A. lian, differ. Suidas leavesh the matter uncertaine, saieng the Dimerite is commander of the half-file, but pointeth not out, which is hee, Arrian distinguisheth the Dimerite from the bringer-vp, and giveth a greater pay to the Dimerite, then to the bringer-vp. The bringer-vp, he faith, was no emore then Decastateros, where as the Dimerite had a greater pay. But Alian twice in this chapter affirmeth, that the bringer-vp was the Dimerite, and addeth hee ought to beethe second man of worth in the file. And that the place of the reare is not much inferior to the front, "Cyrustea , Xono Cross cheth his bringers-vp in Xenophon in these words; You have a place saith he no leffe what & AD honorable, then they, that stand in front. For being in the reare, and seeing & encouraging them, that behaue themselues valiantly, you make them more valiant, and the remisse and backward you incite, & spurre on, likewise to doe as well, as the rest. b Leo appointeth two Officers to a file, the file-leader, and the b Leo. ap. 45. bringer.vp, & fo maketh the bringer-vp the second person of the file. The reare being then the secondplace of the file, I conceiue no reason, why, as the file-leader commandeth the one half of the file, fo the bringer-vp Should not bee the Dimerite, and command the other; and I rather assent to Elian, that of purpose describeth the particulers of this arte, as hee findeth them fet downe in the auncient Tacticks, then to Arrian, that, writing the historic of the deeds of Alexander, stumbleth by chance upon these things not greatly incident to his narration. Yet may there bee a resonable construction of both their meanings, if wee consider the severall respects of the offices of these Enomotarchs. For the middlemost Enomotarch may bee termed the Dimerite in regard he standeth in the head of the second half-file, and in doubling the front and some other motions leadethit: the bringer-vp because he absolutly governethit, and seeth that directions, given by higher officers, bee executed.

6 It behoveth that the file-leader bee more sufficient] The file-leader and bringers-vp ought to bee the most sufficient, because they have the whole government of the file, the one in the front, the other in the reare. Therest are under them, and to bee called by the names of leaders, and followers. But yet is there a further disposition of the file, which, as I finde it in Leo, I will fett downe His words found thus : over the c Loca 45.49 other fixteen you are to appoint a file-leader (as hee is termed) resolute, and fitt for service, and eight of these sixteen, that shall bee found fittest, you shall place in the front, and reare, of the file, foure in the front, namely in the first, second, third, and fourth place, other foure in the reare, in the sixteenth, fifteenth, foureteenth, and thirteenth place, that the front and reare may be firengthened with four emen a piece. The weaker are to bee placed in the midst of the file. This counfell, or rather precept, of Leo hath this reason. The front, and the reare, are the principall places the enemy commonly giveth upon. The front wee alwaies turne against the enemy, if we can. The reare the enemy secketh to attache, and by it to difireffe vs , if heecan. The flanks for the most part are secured by the horse, and light armed. For Leo placest the light armed, and horfe in the flanks. Soe thefe two places, being most subject to the violence of the enemy, require extraordinarie care, and assurance. As for the weakest, which are in the midf , they never come to strike stroke, but after the front, and reare, are broken, In another place hee writeshto this effect : your Contubernies & Loca , \$ 14 (the fouldiers that cabin together) you shall order according to five men, or to ten, or to foure,

The Tatticks

or to eight, or to fixteen, as you hall find most convenient, that being bound one to another with mutuall acquaintance, they may fight one for another in battaile and bee more valiant against the enemy. But you shall doe more wisely, if when you are to joyne, you place brothers by brothers, & friends by friends. For when hee, that fighteth, hath an entierly beloved frend standing next behind him, hee must of necessity hasard himself with more egernesse for his frends sake. And the other being ashamed not to requite one, that sustaines such danger in his behalfe, will hardly bee brought to forfake his friend fo well deferuing, and first betake himselfe to his feete. The same is the advise of Onosander, and was much practisfed in auncient time. The Lochos Hieros, or Holy-band, of the Thebans (whereof I spake before) consisted all of friends, that had bound themselves one to another a Plenarch in Pe in friendship. With this Holy-band 2 Pelopidas gaue the first diffracefull overthrow b Plumarch, ibib. to the Lacedemonians, that ever they had. Of this band's Plutarch writeth, that it was never beaten untill the battaile of Charonaa, when Philip the father of Alexander vanquisht the Athenian, and Theban forces both together. After which battaile Philhip furueying the dead bodies, and comming to the place, where these three hundred lay, all close mingled one with another, and strooken through with the Macedonian pikes, hee wondred greatly, and hearing that it was the band of louers, and beloued, wept, and faid, evilly may they perish, that suspect any filthines in deede, or fuffering, to have been practifed amongst such men. Cyrus the elder had his Homotimos nourished up together, and Alexander his Hetairos; e Diod.Sicul.lib. whose extraordinarie service appeared in all theire hattailes. * Diodorus Siculus writeth of Seloofis the Agyptian King to this effect: at the birth of Seloofis his father did a magnificent and royall deed. For gathering together all the children of Ægipt, that were borne the same day, and setting over them some to nourish and governe them, hee gaue the same education, and institution, to them all, conceiving that they, that were brought vp together, & partakers of the same liberty, would become the best affected, and most assured fellow helpers in warre. This was the judgement of Myris, the father of Sesoolis, King of Egipt, in providing a fured a fiftance to his sonne for the conquering of the whole world, which by certeine blinde prophecies was promifed him. Now what little trust theire is to bee given to men, that are not acquainted one with another. Pompey that great Captaine of the Rod Cier ad Arti mans sheweth in his epistle to Domitius : d For men, faith hee, are not quickly to be affembled hether by musters, and if wee had them, you are not ignorant how much they may bee relyed vpon, being vnacquainted to fight against ould Legions. Tet hath Leo another mixture in his files. For hee would have the ould, and new fouldiers put together in one file. Least faith hee, the ould being by themselves alone, proue weake, and of small force, and the yong diforderly, having litle experience. For the one, albeit ould, yet are well acquainted with fervice, the other albeit young, and valiant, yet are vnskilfull.

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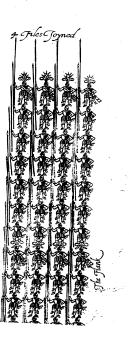
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CHAP, VI.

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is called Parastates, as for example the Leader of the second file, to the Leader of the first, and so their enext followers, and the rest. As often then, as the second file, the third, the fourth, and so the rest are layd flank-wife to the first, it is named loyning of files.

Notes.

T Oyning of files is 7 A file of it felf will worke litle effect against an enemy. For what can a man alone in front doe: Cyrus in Xenophon wisheth, that, a Xenop Cyrep, where as the Ægiptians stood a hundred in depth, they had beene in depth a thowfand, for foe, faith hee, wee should have the fewer hands to fight against. The ranke bringeth the multitude of hands to fight. Andit is held, that the more hands are with conveniency brought to fight, the more is his advantage, that bringeth them. This is done by loyning files together, out of which loyning, ranks firing, and ranks the more they increase, and extend themselves in length, the more hands are ready to encounter the enemy. Now, as it was faid in the former chapter, that files confifted of leaders, and followers, from the first to the last , G is it in this chapter faide, that ranks consist of fide men from one end of the length of the Phalange to the other : Fewe, or many men, placed side to side in a right line make a ranke; as in two, or three files toyned together, there are fixteen tanks of two, or three men in a ranke. And the two or three file-leaders - make the first ranke, theire followers the next, and foethe rest untill you come to the fixteenth. The like falleth out in more files. Vrbicius fiith that the file leaders make the b Beymolaugus front (asthey terme it) of the Phalange, which they call also the first ranke. And fur- to. ther, hee faith, they, that runne in an even line betwiet the two wings, the right, and the left, are faid to bee Parastatai, or sidemen. Likewife : the last ranke is called Oura, or the reare, and the commander Ouragos, the bringer- p. So Vrbicius agreeing with Elian. Now, out of these two chapters, is a cleare distinction of the names of souldsers, that by reason of theire posture, or place, in battaile make the diversaile of files, and ranks. They, that make files are Protostatai, first standers, & Epistatai, after-standers; which are by vs commonly called Leaders, and followers. For thefe two faith Alian make the file from the beginning to the end. Parastatai side-standers, or, as tree terme them, sidemen, make the ranks. And if you measure the length of the Phalange, you doe it by number of men in the ranke, if the depth by number of men in the file.

Of a Phalange, the length, and depth thereof: of rankinge, and filinge; the drulfion of the Phalange into Winges: the place of the armed foote, of the light-armed, and of the Hole.

CHAP. VII.

THE whole bodic of the multitude of files is termed a Phalange: whole length is the first ranke of file-leaders, and is named, the front, the face, the edge of the basicalle, the ranke, the moush, the Commaunders, the fore-standers, & the head of the files.

As much of the *Phalange*, as firetcheth backward from the *front* to the *reare*, is named the depth. The bearing firaight foorth of *side-men* in length, where

ther they bee Leaders, or followers, is ranking. And the standing of Leaders and followers directlie in a line in depth, is filing.

A Phalange is divided into two whole partes beginning at the middle section of the front, and houlding on cleane through to the vttermost parte of the depth; whereof the one half is called the right wing, and head, the other half the left winge, and saile. 5 The two fold fection it felf, that divideth the length. hath the name of the Navell, and the Mouth. 6 The Light-armed are placed after the Phalange of the Armed, and behind them the Horse. Yet if occasion require, both light-armed, and Horse are otherwise disposed, as after in this discourfe will appeare.

Notes.

THE whole body of multitude of files is termed a Phalange] Ioyning of files makes ranks , and a sufficient number of files , and ranks together , make a body, which is called a Phalange. For that name is given to any entire body of an indifferent greatnesse, compacted, and united for fight. Hefychius deriveth the originall of the word Apo tou pelas allelois inai : from the standing of the souldiers in battaile neere one to another. Suidas in the same sence, albeit hee differ a litle in words. faith, the Phalanges are so called apo tou pelasai anchi, of approching one neere to an other. The great Etymologicon goeth yet a little further, and faith, that Phalanges are as it were Palanges para to pelas kai eggys einai, as it were Pelangys. Thefe are the conjectures about the original of the name. Which of them is trueft, is not greatly to the purpofe. It is enough to understand, in what sence the word Phalange is commonly taken among it Tactick writers, who, as I faid, in a generall signification call any a Cabrele bell, great body of armed gathered together, and united for fight, a Phalange. Soe2 Cafar nameth the battaile of the Heluctians, into which they cast themselves, when they fought Execute care against him, and likewise the battaile of Ariovistus, a Phalange, So speaketh & Xenophon of the Plafium, or Guare holow battaile, into which the Gracians, that went with Cyrus the younger into Persia, sastioned themselves at their returne out of Persia. And the e Kooph his Same Kenophon Saith, the horse of the Gracians, when they were to encounter the Per-Arrian Lb. 1. Gians, or dered themselves foure in depth, in forme of a Phalange. And Arrian, that ** Xenophhidos, the Persians at the River Granicus were ordered in a long Phalange, and Exenophon againe discoursing how Iphicrates exercised his naute, when hee expected to fight with the Lacedemonians, faith, hee sometimes lead in a wing (that is in a large depth) fometimes in forme of a Phalange, in a broad front. The first inventer of the Phalange is thought to bee Pan the generall of Bacchus his armie. Polyanus (aith: Pan Line Pan was the commaunder of Bacchus his armie. This man was the first that invented the order of a battaile, called it a Phalange, and parted it into the Right, and left wing. For which cause Poets faine, that Pan carieth two hornes vpon his head. Befides hee was the first, that by slight, and cunning cast a feare vpon his enemies. For when Bacchus, incamping in a hollow forest, was advertised by his spies, that an infinite number of enemies were lodged one the further side, hee began to be afraide. But not Pan: who commanded the same night the armie of Bacchus to give as great a shoute, as they could. The Rocks and hollownesse of the forest rendered it againe double to the enemy, & made shewe of a greater armie, then Bacchus had. Where with the enemy falling into a fearefled foorthwith. In honour of this frategeme wee faine, that Eccho is Pans lone: & the causlesse night-feares, which fall upon Armyes, were attributed to Pan.

So farre Polyenus about the inventer of the Phalange. The number of the Phalange is not alwayes one. It may confifte of ten thou fand, twenty fine thou fand, or as many. as you lift, a Antigonus the King of Macedony had his Phalange of ten thousand, a Polyb. Eb. a. Ptolomaus King of Agipt, of twenty five thou and. The ten thou and Gracians b Poph lib. s. *Protomass Aing of Except, of sweet fines tremjanes.

that went with Cyrus into Persia are called a Phalange. What number the Helvetians, c solven lib. and Ariovistus, had in theire Phalange, is not preciselie set down by Casar. 4 Tet it in Election 51. feemeth by Cafar , that the most parte of the fighting multitude of the Helvetians cast sullib. 1, themsclues into a Phalange; and those of Ariovistus likewise: But Alians Phalange is restreyned to a certeine number, as the next following Chapter will teache.

2 The length whereof] The length of the Phalange is to bee accounted by the ranke not by the file. The file is but fixteen men deep. Theranke from the pointe of one wing to the pointe of the other contegneth a thou fand, and twenty four men in Alians Phalange. So that the files being short in comparison of the ranks , it is reason, that the length of the Phalange bee measured according to the ranke, not to the file. Suidas agreeth with Alian Sayeng, that the length of the Phalange is the first Syn- e Suidas in Mei tagma (the first ranke) of file leaders, which is ordered in a right line, stretching from one wing to another, and is called the face, and the mouth, and the front of the edge. and the first-filing, and the first standers of the battaile. The next rowe, lyene Pa rallel to this, is called the second ranke, and the third, the third ranke, and soe the rest. The length is termed in Greeke Mecos, to which is opposed the depth, which is named Bathos. Neither is there in true account any other dimensions in a Phalange, besides the length, and the depth, which are in this chapter mentioned by Alian. Other names are given in Greeke writers sometimes, but they signific either the one, or the

3. Is named the depth] As the length runneth along by front from one wing to another, so the depth beareth backward from the front to the reare. The depth is properly called Bathos, as I faid. fund Bathera Phalanx, is a deepe Phalange. FDied Steal egs And & Arrian faith, Alexander ordered his Phalange es Bathos, in depth. And & Arrianth. .. h Polybius, that the Romans made theire battaile much shorter then before, but much healybild 1.55 deeper, Bathyteran. And as it we called Bathos, for the most part, so is to the Leo A teropology and the called also Pachos. For the depth of a file is by him termed depth, or Thicknes, Bathos is the called also Pachos. etoi Pachos, in two feverall chapters of his Tatticks; not in respect of the file it felfe, apri \$ 214. which is no more then a long line, as it were, and carieth neither Thicknes nor breadth, 47. but in respect of the Phalange, the depth whereof is measured by the file. Andin the fourth, the twelfth, and fourtenth chapters hee termeth the depth of the Phalange it felf (Thicknes) Pachos alone with out adding Bathos; shewing thereby, that Pachos also signifieth the dimension of the Phalange from the front to the reare. But where some are of opinion, that Platos, breadth, ought to bee read in those places in fede of Pachos, Thicknes, they per swade mee not to bee of theire mind. For Alian & dia cop. se himself giveth an Attenuation, or Thinning, (which hee calleth Lipty smos) to the Phalange : and that cannot bee understood, unlesse there were in it a kind of Thicknes before. And to make it more plaine, hee faith, that this Leptysmos is, when the depth of the Phalange is gathered up and from fixteen men it becometh a leffe number. So that the Thicknes of the Phalange is the full fixteen, which is also the depth, and making of it Thinner is to lessen the depth. To a Place Platos is fittly astributed, a Place being onely superficies , which consisteth of longitude and latitude. So' Polia-1 Polianus speaking of a valley, wherein an ambush was layde to entrap Alexander, saith, the length stretched farre out, but the breadth, Platos, was narrowed to foure fur in vont lines longs. The name of Platos is likewife given to a place by " Polybius - But to fay the man.

truth Platos in a Phalangerather signifieth the length, then the depth, as appeareth a Leo un \$2: by Alian after in the foure and fourty chapter. And Leo calleth the front of the Phalange Platos, and when hee would have the front enlarged, or doubled, hee giveth this word of direction Platynon pròs tà amphotera mere, enlarge the front on both

4 The right wing That which in the English toung is called a wing, is termed in Greeke Ketas a horne. Wee in our warres of auncient time divided our armies into three parts, The vantgarde, the battaile, and the reare-warde : and, when wee came to fight, fet them for the most parte in an even front, the battaile in the middest, on the right hand, the vant-garde, which was called the right wing, on the left, thereare-warde which was called the left-wing. Properly enough for our embattailing. For the battaile is , as it were , the body, and the vant-garde , and reare-warde, are the wings, which in a manner flicke out from the body, and whereby the body is supported : that , that wee call wings , the Gracians , and Romans cal led horns in the battaile. The word Keras signifieth a point bearing out from the beight, or ends, of any thing. It is veed for the toppe of Rocks, and for promonto. ries , and fuch like ; And in a Phalange it properly fignifieth the two points (the right and the left) of the winges. The English worde wing I am faine to retaine, because it is familiar, and in vie. Alian heerewill have the wings to stretche out from the middle fection to either point (the right and left) of the Phalange . under which appellation must fall to the right wing the whole stace, that beginneth at the middle inservall, and runneth along to the corner of the battaile on the right hand, to the left. all that is comprehended betwint the same space, and the left corner of the battaile.

5 The two fould fection] In Greeke it is named Dichotomia : becaule it parteth, and divideth the Phalange into two even parts, beginning at the front and firesching out to the reare. And Alian in the tenth chapter of this booke nameth it Apotome. But heere hee steaketh of no more intervalls, or partitions, of the Phalange, then of this one in the midft. I would thinke there fould bee more. Ono fander faith: let there bee certaine intervalls in your battaile, that if your enemy advance, your light-armed after they have front their missive weapons, and before the Phalanges joyne, may retire leafurely in the intervalls, and without disorder come behinde to the reare. For it is not fafe for them in retiring to fetch a compasse about the whole armie, or to turne in agains on the outlide of the winge. For the enemy, hafting to come to hands, would eafily prevent, and intercept, them in the middeft; fo that they neither should bee able to breake through the armed, already closed for fight, and falling upon theire owne weapons, they must needes disorder theire owne people, every man after other feeking to finde a way through them to escape the danger hee is in. Thus much One fander: from whom wee may learne, both that theire ought to bee more fections in the Phalange, then one, and that the inflitution of them had this cheefe end, to receive the light armed in theire spaces, after they had skirm shed with the enemy, and were by them forced to retire. I may adde, that Alian placing the lightarmed in the reare of the Phalange if you give but one festion unto it, it will be as hard for them, to advance, and (rue, before the front, as it will bee to retreat after theire) ** fervice done, It feemeth, that Leo giveth three intervalls to the Phalange of the anneient Tallicks. Hee faith: they opposed the bodies of the armed against the enemy, and divided them into foure parts, the right, and left, and the middle-right, and middle-left parte. Making so many parts, the parts must be distinguished (as I collect) by intervalls, which ought to be one

after the first body of the right-wing, another after the second, which is the middle fection, the third after the third. And this Third fection is bounded with the fourth body , which maketh the point of the left-wing, For if the Phalange were whole , and entire , without more intervalls then one , how could there bee foures parts? For efteeming them by Phalangarchies, without leaving spaces betweene. it could not bee (aide, there were but foure parts of the Phalange, confidering, that as well the Merarchies, Chiliarchies, Pentecofiarchies, Syntagmataes, areparts of it, as the Phalangarchies. But being distinguished by partition of intervalls. the foure Phalangarchies become foure parts, namely the right, left, middle-right and middle-left : as Leo heere termeth them. The fame . Leo fpeaketh after more a Louis La plaintly enjoyning his generall to seperate, and dissone Diachorizein the whole number of his armic into foure parts. For , as Choris significth a part or severed. fo Diachorizo, being derived from it, fignifieth to put afunder, or fette apart. Suidas is yet a little more cleare. A Phalangarchie, faith he, is two Merarchies b sallin in the of foure thowfand and ninty fixmen. This as some save is the section . App. dis. tome, of the wing, as other, it is a Meros. Of auncient time it was called Sira. segia, and the commander Strategos, but nowe hee is termed Phalangarcha. Suidas maketh the wing to have a partition or fection, and faith, some call a Phalan. garchie by the name of this fection. Before wee hard out of Alian that the wine (right or left) did stretche out from the middle section to the outward most point of the battaile on either fide. And as the middle fection divideth the Phalange in top parts, which are called wings, so this section (spoken of by Suidas) being in the middest of the wing divided the wing into two parts. To call a Phalangarchie (which is a body consisting of foure thowsand and ninty six men) a section, it, I confeste, an un. proper speach, but tolerable notwithstanding, considering that the whole source folde Phalange is composed of the foure Phalangarchies, and that the section of the right-wing beginneth at the left hand file, or immard point of the right hand Phalangarchie, and endeth at the right hand file of the second Phalangarchie. And wee arenot to expect the same exactnesse of speach from fouldiers, that is common to men skillfull in the liberall sciences. Souldiers, that professe action, have theire end, if they bee understood of those they commande. Artistes are contemned, that clothe not the precepts of theire arts with elegant, fitt, and exact termes. Seeing then the begin. ning of the fection of the wing is at the flanke of the first Phalangarchie on either fide of the Phalange, wee may after a fort terme the Phalangarchie a fection of the wing, because it boundeth the section. At least by thu place of Suidas weemay gather, that there was an intervall in either wing, which in reason ought to bee in the middest of the wing, and to lye betwixt the two Phalangarchies. For fo many there are in one wing. 'Polybius telleth of Philopamen, that, fighting against Machanidas the : Polybius Tyrant of Lacedemon, after hee had placed the light-armed, the Lanciers, and lbyrians iountly in one front hee added in the same right line the Phalange distinguished into bodies according to Merarchies and divided by severall distances. I translate Speiredon distinguished into bodyes , because Speira signifieth a militarie body a mongst the Gracians, and is by the Gracians, that wrote the Roman histories veed sometime for a Legion , and sometime for a Cohort. And it seemeth that Spiredon is heere by Polybius put in the same since that Eis Speiran is by a Plutarch : who mentioning the reformation tenching affaires mi- a rock race litarie, which the same Philopemen brought in amongs the Achaians, wis perman teth thus their manner and forme of embattailing was not viually parcel led out Eis Speiran , that is (as I interprete it) in severall bodies , but ving a

Phalange, which had neither protension of pikes, nor closing of targets in front (as the Macedonian manner is) they were casily foiled, and broken, by the enemy. The meanine of Plutarch is (as I conceive) that the Achaians in former times veed to order sheire Phalange in a continued length without intervalls which Philopamen reformed. and taught them to make divisions by intervalls : And the practise of Philopamen is the best interpreter of his owne counsell to the Achaians. This practice Polybius fetteth downe to bee the division of his Phalange Kata tele speiredon en diastemasi into bodies distinguished by intervalls according to Merarchies. Polybius also, to (heme, what bodies they were, veth the word Tele, which I translate Merarchies. baving my warant out of * Alian: who faith a Merarchie confileth of two Chiliarchies, and conteineth two thow and and fourty eight men, and a hundred and twenty foure files; and addeth, that it is of some called a Telos, and the leader a Telarch. man may doubt feeing Philopamen made an intervall betwint every Merarchie, whether hee made seven divisions, or no : For in Alians Phalange there are eight Merarchies, betwixt every of which if a distance were, there must needs arise seven intervalls. To cleare this doubt wee must understand, that the Phalanges of the Gracians were not alwaies of the same number, as I noted before. Elians, and the Macedonian Phalange, consisted of sixteen thow fand and odde. Antigonus had but ten thow fand. Demetrius elenen thowfand. Other had more, the Lacedamonians lesse, and likewise the Gracians for the most part. And it seemeth, the Phalange of Philopemen was momere, then eight thow fand, and odde, in which number there are but foure Merarchies. As Alians Phalange comprehending sixteen thowsand and odde, wherein are foure Phalangarchies, hath likewise three divisions by Phalangarchies. And get in thu Phalange of Philopamen , if you account the file to have but eight men (as the most Gracians vsed in theire files to have) these foure Merarchies will possesse as much ground in front, as the Phalangarchies of Alians Phalange doe, the file being fixteen. Neither is it new to figure out the bodies greater, or leffe, according to e. the number of the Phalange. Leo commandeth bu Generall, when the number will not reach to fixteen thow and (the number of the ould Phalange) to hould notwithstan. dine fixteen men in a file, and to divide his Phalange into foure equall parts by interwalls, excepting some few, which hee would have reserved for other vies. To conclude Alian him self seemeth to acknowledge more sections, then one, when in the tenth Chapter of this booke hee speaketh of the middle section mese apotome. For this word middle being a relative, can not bee understood without two other at least, which are placed on either side. And all the figures, that I have seene, of a fourefold Phalange allowe three sections , and no more , that is to fair , one on the middest, and the other two in the wings. What the distance and dimension of shese sections ought to bee , I finde not set downe. But , if I might have leave to coniecture, I would thinke, they ought to bee large enough for a troupe of horse, framed wedge-wife, after the Macedonian manner, to paffe through; the last vanke whereof being fifteen (as appeareth in the twenty chapter of this booke) and the borse placed in the reare of the light-armed it is needfull, if voon any occasion they were to bee drawen through to ferme in the front , the distance of the section should bee sufficient to gine them passage with out disorder. And I am the rasher confirmed in this opinion, because I see the intervalls betwirt the Roman maniples to proportioned, that the Principes might passe through those of the Hastati , and the Triarij through those of the Principes. But I proportioned out the intervalls to the horse, not to the light-armed, for that the light-armed may bee divided into severall bodies without inconvenience, but any breaking of the

horse-wedge breedeth a confusion in the whole troupe. Tet where a troupe of borsemay find way, there may a Centuric, or Colours, of light-armed finds, also

6 The light-armed are placed after] * The light-armed were diversity a Adison sup as placed, sometimes before the front of the Phalange, which kind of placing is afterward called Prataxis, sometimes on the wings, and it is called Hypotaxis, sometimes betwirt the files of the armed fronting in a right line with them, and it was called Entaxis, sometimes in the reare after the Phalange, which was called Epitaxis. All these are poken of by Elian heercaster in this booke. 6 There is another kinde & Action capes of placing the light-armed, when they are throwne into the midft of the battaile. being hollowed for that, and other purposes. Heereof Alian likewise treateth in this booke heere after. And albeit the most vsuall embattailling of them hath beene in the wings, yet the bestowing in the reare according to Alians minde hath also advantages. First it conscaleth theire number , which because they are shaddowed with the pikes standing before, can hardly bee discerned. Then it is case from the reare to drawe them to any place of fervice without diforder , bee it before , on the wings , or behinde the reare. Further , it will not bee easie for the enemies borfe to charge them, the armed standing before for a sure defence. Lastly, from the reare they shall bee able at all times to anoye the enemy, before the battaile ionnes, as soone as the battaile ionnes, and all the time of fight. Neither doth this manner of embattailing want examples of the ould historie of the Gracians. The embassailing of Cyrus theelders armie, in Xenophon, bath the light-armed e Xenop Groot in the reare. I will fet downe the effect of Cyrus words at large because they con- 14.6 167.1 teine the ordering of an armieto fight according to the judgement of Xenophon. Cyrus then being to trye a battaile with Cræsus thus directs his Commanders : you, faith hee, Araspes take your place in the right wing, as you now doe, and you the other Myriarches, as you are acoustomed. For when the fight is once a foote, noe Chariot may change horses; and command the Taxiarches, and file-leaders, to order theire files every one divided in two parts Phalange-wife, that is each half fronting one with another in a right line. A file conteineth fourean twenty men. Then faide one of the My. riarches, doe you thinke Sir, that wee shall bee able, in this order, to encounter so deep a Phalange, as the enemies. Cyrus answered, the Phalanges that are deeper, then may with their armes reach the enemy, are they fitt thinke you either to annoye the enemy, or profitte theire frindes? For my part I could wish those that are ranged 100 in depth, to bee in depth a thowfand. For so should wee have the fewer to fight with all. The number, that I give for the depth of the Phalange, I doubt not, but will entirely serue for vie, and maintaine a joynt fight in every part. The Darters I will place after the armed, and after the darters the Archers. For who will fett them in front, that confesse themselves vnable to maintaine a fight hand to hand? Howe then will they hould theire grownde, if they bee fert before the armed! but being in the reare, some with darts, other with arrows, sent over the heads of the armed, will greatly endammage the enemy. And it is cleere, that wherewithall foever an enemy is endamaged, with the fame a mans Owne side is eased, and relieved. You therefore order your selues, as I haue appointed. As for the captaines of the Targetiers I will hauethem, and theire files, stand likewise next the armed in the Reare, and after them the Archers. And you the chiefe Commaunder of the Reare enjoyne

enjoyne the other reare Commanders every man to have an eye to those vnder him, that they doe theire duties. And let them sharply threaten the negligent, and in case any man treasonably for sake his place, punish him with death. For it is the worke of Commanders both with word, and deed, to encourage those, they command, & to make the cowards more afraide of them. then of the enemy. This is your charge, but you Euphratas, that command over the Engines, fee that the beafts, that drawe the Engines, and Turrets, followe the Phalange as neere, as may bee. And you Daouchus, that have the charge of the baggage, come with your manye next after the Turrets, and let your Serieants seuerely punish them, that hast to much before or come to flowly after. And you Carduchus, that rule the wagons, wherein the women are, order them next the baggage. For all these, comming in the reare, will both breede an opinion of multitude, and give vs meanes to lay an ambufh, and will force the enemy, purposing to encompasse vs. to fetche a larger compasse; which the larger it is soe much the weaker must hee be. And you Artabasus, and Artagersas, each of you leade next after these, the 1000, soote you commande a piece. And you Phranuchus, and Afiadatas, order the Chiharchies of horse you commande not with the Phalange, but set them by themselves apart behind the wagons; and when you have done it, repaire to vs with the rest of the commanders. But you are to bee in a readinesse; as if you were first to fight. And you the commanders of the Camel-riders place your felues after the wagons, and doe what Artagersas shall bidde you. And you the Commanders of the Chariots, after lotts are cast, lethim, whose lotte it is. range himself, and his 1 00. Charriots, before the Phalange; the other two hundred one of them is to follow, the Phalange on the right fide, wing-wife, the other on the left. So farre Cyrus. I have rehear (ed the words at large, principally to shewe that the light-armed in ancient time were placed sometimes behinde the Phalange: and yet further also, to represent the manner of embattailing an armie which was then v suall. For heere have you fet downe the place of the Myriar ches, or of the other commanders, which was in front, then the place of the pikes, of the light-armed, of the reare commanders, of the Engines, of the baggage, of the wagons, wherein the women were, of the gards for the baggage, both horse, and foote, of the Camels, and of the Chariots. And albeit many of these particulers agree not with our manner at this day (for wee have neither Engines, nor Camels, nor Chariotts, nor flings, nor darts, nor arrowes) vet is the reason of warre alike in all, and in our placing also the fitnesse of service prina Tenop Cyrop cipally to bee respected. The place of the horse is heere omitted by a Xenophon, which may be Supplied out of the Seventh booke, where Chry fanthas Generall of the horse is faide to stand on the right wing of the Phalange with half the horse, Hystaspas on the left with she other half. But to returne to the placing of the light-armed, the same Xenophon tellifieth, that it was the Louptian manner to order theire light-armed behinde, of that in the battaile betwixt Cyrus, and Crasus, the Leyptian archers, and darters, were with drawne four ds compelled by the reare-commanders to shoote, and cast theire darts. e Xenooh, Hit. "Thraffbulus in his fight against the thirty Tyrants fet his armed in front, and in the grac. 1 : 47.10 reare his targetiers, and darters, without armor, and those that cast fones. And it feea xmoph hist. meth by the words of Thrafybulus to his owne fide. that the Tyrants did the like . The Tyrants, faith hee , have brought vs to a place, in which by reason of the steepnesse they must ascend, and can neither cast stone, nor dart, over the heads of theire owne people, that are embattailed before. Where wee contrary wife. whether wee throwe jauelins, or darts, or stones, shall easily reache, & wound

many of them. The stones and darts of the light-armed were to style over the front of the battaile, and that could not bee unleffe the light-armed were placed behinde: I will adde one example onely out of Plutarch to shew the service of the light-armed in the reare, Plutarch discoursing of the battaile fought betwixt Sylla, and Archelaus, the Gene- a Plutin sylla, vall of Mithridates, at Cheronaa, hath thus : Afterwards the foote forces came to joyne, the Barbarians holding out, and charging theire long pikes, and endevouring with locking theire targetts close together, to mainteine the order. and closenes of their Phalange: The Romans on the other side, casting away their darts, and drawing their swordes: putte by the enemies pikes in choler, to the end they might come quickly vp to them. For they espied, opposed against them in front 15000. of the enemies slaves, that were enfranchised by Proclamation of the Kinges generalls . & enrolled emongest the armed. And when the Roman Armed coulde hardly breake them ; by reason of theire depth, and fast knitting together; and of theire bouldnes in daring (contrary to the nature of flaues) to abide the danger of the encounter, the arrowes, and darts cast in aboundance from the Reare, made them shewe their backs, and falling route. Wee finde heere, that the light-armed from there are effected that, which the Armed could not. These staues endured the shocke, and could not bee broken by the armed, and yet were defeated with Arrowes, and darts, from the Reare: Nowe for the distance that should bee betwiet the bodies of the light-armed and betwixt them, and the reare of the armed, Elian faith nothing : I make noe doubt but there ought to bee as great (if not greater) as in the lections of the armed. For wee must understand, that the sections , that served to sever the Phalangarchies one from ano. ther, must runne through the light-armed in depth to the reare. And by them are the Epixenagies to bee devided a funder, as the Phalangarchies are: with Epixenagies answer the Phalangarchies for number of files, albeit not in number of men. Likewife there ought to bee, a greater pace in ranke, and file, then the armed had For the band. ling of missive weapons, require more liberty of place, then the managing of apike or Sworde. A dart can not bee fent for ciblic without running two, or three, fteppes in the delivery of it. A (ling being throwne, and circled about the head, before the stone, or bullet, can bee forced out to any purpose, will not suffer a neere stander by. In bowes, and arrowes, is the like reason, if they be vied as they ought. Besides the light-armed in their fight are tied to noe certainty of order, or grounde, but fight difter fedly : Soe that the more grounde they baue, the fitter they are for service. In which respect a large intervall. croswife between the armed, and them, should serve to purpose it having liberty for their motion forward, and backward, as occasion should require.

7 And behinde the Horse:] I have not read in any greek historye, that the horse-men in a sett battell, haue beene ranged behinde the light-armed. The vsuall manner was to place them in the bings. See did Alexander before he paffed the River Cha- b Lecap 4 \$4. nicus : soe dat Issos, soe at Gangamela : Soe did Antigonus , against Eumenes , and En- 12 14D menes against Antigonus: Soe & Ptolomeus against Demetrius, and Demetrius against Pto- Curt lemeus: and in brief all the Macedonians, and the Gracians, before the Macedonians mare & Died Steel the accounted of for matter of armes: vnleffe some speciall cause moved an alteracion. And, 19.415 6 as I shewed out of Xenophon, before all theire times. L' Crrus albeit, hee set the light Armed in the reare, notwith standing hee beestowed the horse in the wings: Alexander having in 7. 192 Ca passed the River Ister as long as hee marched in the corne lande placed his horse behinde his ! Atinnish Phalange, when hee entred the Champeigne, hee fett them on the right wing : and D.E. lastly cast his Phalange in to a Plasium : and ordered his horse before. In the Corneland, they followed (for feare of an Ambushe) In the Champian they marched so the

right wing, because on the left, the Phalange was secured by the River; before the Plafium, that, being over-layde with the multitude of the enimye, they might have a fure re-Arrise lib. 2. treate to the foote. The same Alexander, when hee was to fight the Battaile of Iss with see But in Darius, as long as hee was in the streights, marshalled his horse after his soote. But in marching forward, comming to open ground, when he might give full length to his Phalange, hee placed his horse on both the wings. But the reason of setting them behinde was in the streightnes of the place : and hee being incerteine how neere the enemye lay, was loathe to put them to halard, before they had liberty of grounde to order themselves, and might have a listance of the foote. For otherwise it was an ordinarie matter in marching (as it is the manner also at this day) to dispose the horse half behinde, and half before. Strooph, hift. I will content my felf with one example. When I gefilaus retourning out of Afia, passed through Thessalie, the Thessalies of the Thebans, followed him, and fought to endammage his armie to theire vttermost. Hee had before disposed his march into a Plæsium, with the horse half in front, and half behinde, nowe when the Theffalians ceafed not to molest him, by failing vpon his reare, hee fent to the reare all the horse of the vantgarde, excepting those, that attended his person. Either party prepared them selues to fight. The Thesialians holding it not sure with Horse alone to incounter armed soote: Turning about their faces, began leafurely to retire, and the Lacedæmonians flowly to followe, Agefilaus, perceaving the errour of both, fent the best of his horse, that were about him, commanding them to signific to the rest, that they together should goe, and charge the Thessalians with all speede, and give noe respite to them, to turne their faces. The Thessalians contrary to their expectation being hottly charged, some fled, other some turned about towards the enimy, other some indevouring to turne, were surprised by theire enemies, that by that time were come vp to theire flancke. Nowe for the reason of Elians placing the Horsein the reare, I have not more to say, then, that from thence sher mieht bee loone drawen to all places, front, flanke, or where soever the enemy is like to distresse vs. For it hath beene the forecast, of all generals to fashion their battails according to the figure the enemy hath before chosen. Examples are so plentifull, Incedenot alleage many. Onely I will remember one latine flory of placing horse in the reare. L. Lentulus , and L. Manlius Acidinus in Spaine being to fight with the Illergetes, and An-Setans, and other Spaniards, that had revolted from the Romans; in this very kinde of placing horsein there are imitated, and gotte the advantage of, and defeated theire enee tire ceab, mies. Livy hath the ftory, and writes thus in effect : The next day at the rifing the like w, of the sonne the Spaniardes being all armed, and set in order, shewed theire how the wear and the second of tibe the detail. left: Betwixt the wings, and the middle parte, they left broade intervalls, to giue passage to theire horse: (when time should bee) to send them through short a stand give passage to theire norse: (when time should bee) to send them through the same that to charge. The Romans Embattailed after theire wonted manner, Onely then imitated the enemy, in leaving open waies, for the horse betwixt the legions. And by syth Lentulus imagining that partye, and none other, should have vse of theire horse, that first possessed these intervalls of the adverse battaile, commaunded Cornelius the Tribune to give direction to the horsemen, presently to charge through, the foote on both fides came to blowes, and the fight was hard, when the Roman horsemen passing through the Spaces, and falling vpon the middest of their enemies at once disordered the battaile of foote and shut wp the wayes against the Spanish horse; by which meanes, after noe long

fight, the enemy was vtterly defeated. Where Livy faith the Romans embattailed after theire wonted manner, his meaning is they ordered them selues in Maniples. or Battallions, as wee now terme them (for that was theire woont.) But when hee addeth, they imitated the enemy in leaving open waies for the horse, betwixt the legions. Wee must understand that a legion was thus embattailed. First they di- a Livedend . vided theire legion in to thirty Maniples, ten of the Hastati : ten of the Principes, and " atte ten of the Triarij. The ten maniples of the Haftati, they fet first in an even front, leaving (oc much distance, or voide grounde betwixt every Maniple, as a Maniple it self tooke up in standing. At a reasonable space behinde, were the Principes placed in as many ma. niples : but foe that theire maniples stoode directly behinds the voide spaces of the Hastati. And against the bodies of the hastati, they left likewise spaces in the Principes to the end, the Haftatt being overlaid, might retire within thefe spaces : or elfe themselues might advance against the enemy, through the intervalls of the Hastati. Lastly at a larger distance behinde the fe were the Triary fet, and divided with spaces betwint enery marriale, which spaces were great enough to recease the Principes, in case they retired also. Now the Horse being ordered in the reare after the Triary, if from thence, they had gon to charge the Enemie front , through the spaces of the Triary , they must of necessity , have fallen upon the Maniples of the Principes whoe were fet direct, y against the intervalls or spaces.

To give therefore free pasage to theire horse, the Roman Generals removed the maniples of the Principes from theire ordinarie place, and bestowed them, in a right line, after the maniples of the Hastati, and made an open lane, (as it were) from the reare of theire bastell to the front So that nothing hindred the horse, but they might freely fly up to, and fall up. pon the enemies from. And yet I take not Alians meaning, to be , that the Horse fet in thereare, should during the time of the sight still remaine there. For soe would not great fervice bee had of them. But hee placed them there the rather to avoyde confusion in ordering the foote. And that after theire embatteling they might bee led from thence to any place, front or flanke, or where foever they might yeeld most vie. For in the fifteenth and twentith chapter, he would have both light armed, and horfe foe placed, that they might answer all attempts of the enemy. And in his caution following, hee faith, if occasion require both horse and light-armed, may bee otherwise placed. That they were vsually placed in the wings, I have before shewed. The examples declare they were placed in the veare Cometimes:

Of placing in the front there are also examples. The Lacedemonians at the battaile of b Xmoph, his Leuctra against the Thebans placed theire hor fe before their Phalange, and tried their fortune With them, and were beaten, before the foot cioyned: The Perfians at the River Gra- c Promition to nicus, esteeming theire Horse to bee theire chiefest sirength, opposed them vpon the bancks mails it a.B. against Alexander, that was to passe over, and embassailled their foote behinde the horse And Alexander encountered them first with his Horse, before his foote could get over: One example more I will adde to shere the reason, why Horse are sometimes placed before the from of the Finalange of foote. d Eumenes being to fight against Craterus and Neoptolemus, a Phanch in vi both grease generalls, that had ferved under Alexander in all his warrs, ordered the febr a summent and thus: Because hee vnder-stood, that theire Army confisted of twenty thowfand foote, the most parte Macedonians renowmed for their evalour, and skill in fight (In whom they fet theire greatest trust) and of more then two thowsand horse; and knewe his owne foote, albeit they were as many in number, yet all to bee ramasses of diverse kinds of people, and that his owne horse were five thowsand, with exceeded the enimy both in number, and valor, hee determined to hafard the battaile vpon his horse, before the two Phalanges of foote should come together: Advancing therefore with his horse farre before

strangers, to Pharnabarus a Persian the sonne of Artabazus; and to Phenix a Tenedian: Craterus stood in the right wing of his owne horse, and placed Neoptolemus on the left. And feeing the enemies horse comming forward, with greate fury charged them first, and fought brauely. But his horse failing vinder him, hee fell to grounde, and it being not knowne, whoe hee was by reason of the medly, and throng of those, that gaue backe, and fled, hee was trampled under foote, and ended his life after a strange manner. By his death the enemy tooke courage, and encompassing theire adversaries on all fides, made a great flaughter, and the right wing, after this manner, with might overpressed, and put to the worst, was faine to sly for succour to the Phalange of foote. In the left winge Neoptolemus stoode directly against Eunienes, and the mutuall fight of eche bredde a greate emulation betwixt the generalls, and a fervent defire to come to hands. And being eafely knowne, both by theire horse, and other marks, they flewe one vpon another; and out of their fingle fight made away to a confequent victorie. And first they affailed one another with fwords, and after feil into an vnlooked for, and wonderfull Monomachy, for being transported with anger, and mutuall hatred, quitting the raines of theire bridles, with theire left hands they eache feazed. and tooke hold vpon the body of other, which hapening, and the horse continuing theire careare, and foringing from under them, they both fell to the grounde, neither of them could wel arise by reason of the suddaine, & violene fall, and of the heavines of their earmor. Yet Eumenes got up first, and prewented Neoptolemus, stricking him on the ham. The wounde was wide, and his strength of footing thereby failed, & soe lay as one, that had no evse of his legge, being not able to raise himself because of the hurt : notwithstanding, courage overcoming the weaknes of his body, hee lift vp himselfe vpon his knees, and hurt his adversarie in the arme, and thighes, giving him three wounds. But none of the wounds were mortall, and they being yet warme, Eumenes with a second blowe hitting his necke, slewe Neoptolemus outright. Whilest these things were a doing the rest of the horse fell together. Many were flaine on either fide : fome therefore falling, other being wounded, at the first the daunger was equall. Afterward, when the death of Neoptolemus was openly knowne, and that the other wing was put to flight, every one shifted for himselfe, & made towards the Phalange of foote, as to a strong wall of defence to faue himselfe. This was the iffue of the battaile. Wherein Eumenes, placing his horse before his foote, because hee held them his strength, and with the trieng the hazard of the day, shewed him self, both in councell, and action, a greate gene-

vall. And Craterus on the contrary side, albeit highly esteemed emongest the Macedoni-

ans, as one, that had with great sufficiency served Alexander in all his warres, get failed

In indement, in that hee chose rather with his horse to encounter the stronger parte of his

enimies forces, then with his Macedonian Pholange (which Eumenes himself feared) to

trie his fortune. For as it is a pointe of forecast to knowe a mans owne advantage, and vse

st : Socit is noe lese indrement, to knowe wherein the enimye is stronger, and avoyde yt.

Emmenes did both ; for hee veed his owne horfe, which were his strength , and brought to

passe, that Craterus his Phalange did him noe good , in as much as they never came to

fight. Craterus failed in both, in that hee neither brought his Phalange to fight, nor yet

provided sufficientlie to encounter Eumenes horse; which exceeded his in valour, and

number: so appeares both that horse were placed before the front of the soote; and also the

florie gives the reason, why they were placed there.

Of the number of the armed foote, of the light-armed, and of the Horfe.

CHAP. VIII.

TOw are wee to lay out, what number the armed-foote, the light-armed, and Now are weet to lay out, what humber the large ordered, and how vpon occasion the Battaile may speedely be transformed into divers shapes, & formes, and what discipline vied for the motion of the severall parts of it. Wee cannot with any probabilitie fet downe a precise number of forces to be levyed. For as much as every man is to proportion his levie according to the importance and qualitie of the warre in hand. This yet must not escapevs, that such a number is to bee chosen, as will fitt : the divers shapes, and transmutations of our Troopes. As if in case were to double, or to multiply, and manifoldly enlarge the length of the Phalange, or els to lessen, and drawe it vp into 2 narrower roome. For this cause choice is made of a number, that may be reparted into half continually, till you come to one. Hence is it, that most Tadick writers would have a Phalange to confift of fixteen thou fand, three hundred, eightie, and foure armed foote, and of half so many light-armed, s and of half as many Horse, as light-armed. For 16384. may bee reparted continually into half, till you come to one. Therefore for proofe, and Examples fake this numbers is admitted. And where wee have allotted fixteen men to every file, the whole maffe will arise to one thousand, twenty, and source files.

Notes.

THE Chapter before spake of she parts and dimension, of the Phalange, and of the place of the armed, the horse, and light armed. This treatesh of the number that goeth to the Phalange, In chois for Whith number, Alland sith consideration is not so much book had of multitude, as of hines for service. For such a number as cannot apily beed is soft of fifth, is rather meanes of confusion, then of order without which not fight can be mainteparted. Therefore such a number is to be calos for a Will serve.

The dive is shapes, and transmutations of our Battaile] Fuery motion, in the battaile makes not a Transmutation, or diversities shape, then was as fiss. As a mean turning his face any way, the same proportion of lineaments remains that was a fisse, as a mean turning his face any way, the same proportion of lineaments remains that was in him before. Soe likewife in countermarch or wheeling after the Countermarche, or wheeling is done, every souldier if he keep his right dissace, and remaine in sile and ranke, but the place hee had before: And soe neveralfiguration of length or of depth solloweth. The motion them, that Elian meanes to make Transfmutation, are Doublinges: For whether you enlarge the length, or depth, of your Phalange, 300s straight induce another shape with a long fromted Phalange, and a Herse differ much in sorme. If you will make of the wilmarie Rhalange a herse, you are to double your files so of sen as your timke convenient for the length of your before. Then if from the Herse, your would returne it to the first forme, you are not to case foolubling R anks, sit you have gained that some it kenish if your ordinarie Phalange, you would make a sing fronted Phalange, your tankes are to be doubled, and by continuing your doublinge, you may drawe out what length you will. And

contrarywise, by due doubling your files againe, you come to the first sorme: How much you double your Ranks, See much you take away from the depth of your Phalange; us on the other side, doubling of your files, diminisheth the length. For the purpose, your Phalange is fixteen deep, double your Ranks ; the depth hath but eight men ; double it once more, and it hath but foure. Soe is the Phalange confifting of foure ranks, & energ ranke, hath fourethousand, and ninty fix men in it : But the length is foure times as much as it was . In like manner doubling your files (which in Alians Phalange are a thouland, and twenty foure) the first doubling loseth fine hundred, and twelve files and soe many remagne the second seven hundred, and sixty eight, and two hundred fifty six remaine; and soe many men have you in a ranke. But where the Phalange was but sixteen deepe, nowe in the second doubling it is become fixty foure deep: If you please to reduce it to the first forme, two doublings of ranks will suffice. Heere wee must understand that doubling ranks, is not to make twice foe many as they were before, but to give twice so many men, to every ranke, as they had before by intertinge the even ranks into the odde; as the second into the first, and the fourth into the third, and the fixt into the finth, and the eight into the feventh, Ge. The vicof doubling I will shewe in my notes upon the twenty nine chapter of this booke. Elian therefore would have his Phalange of fuch a number as may bee reparted continually into halfe, till you come to one; Which number hee faith to bee fixteen thou fand three hundred , and eighty foure And ge ariserhout of the Multiplication of one by two soe still doubling the product, till you have made up the full number, of fixteen thou fund, three hundred, and eighty foure. And as the Multiplication by two begetts this number, for it being divided by two continually, it may beereduced at last to one: which is the thing, that Alian aymes at. For the numbers, that have not equall division by half leave some supernumerary men in the Thalange: (which) in doubling will deforder both files, and Ranks: Every man acquainted with the lowe countrie militarie exercife at this day, knoweth, that when there is an uneven number of files, the odde file supernumerary brings a difference, and cannot bee doubled in the fort as the rest are: Asin fine, seven, nine, eleuen, severall bodies of files. Two, six, eight, sen, may well bee doubled, and become ewo, three, foure, fine files a piece: but the fifth, feventh, ninth, eleventh, must bee severed from the rest of the doubled files; and serve to noe purpose, being not matcheable in depth with the rest after theire doubling. The same realon is of ranks: Now when Alian faith, that this number in a Phalange may bee devided by half and reduced at last to one, wee must with all understand, that the file of the Phalange in such division, ought to be either of eight, or sixteen men a piece For noe number under eight, except foure, or two (which fitte not the depth, of a Phalange) nor betwixt eight, and fixteen, is divisible by half, till you come to one. Noe nor about fixteen except in bee produced out of the duplications of sixteen. A file of 12 comes nearest. And of that number was the file of Cyrus in Xenophon. Such a file notwith fanding by druif on of two flaies at three, and can descend noe lower. Ten was the old file of the Gracians, and it was Room, Errop, called Decas. And albeit after trard vpon better consideration they enlarged the number of the file to twelue, yet they reteined the name of Decas still. But ten receiveth but one divifrom and goeth downe ward noe further then five. The uneven numbers under fixteen canso bee divided at all. Vales by fraction. As thirteen, which if you will divide by halfe. the quotient will bee fix, and there remaines han odde man over : of which number, if all the files of the Phalange Should bee, you should have a thousand, two hundred, and fixty, Which Will receine moe more, then two doublings without a fraction. If then the files be abone fixteen, and under thirty two, you cannot drusde them continually by haf, but you must faile of the manner, that Elian speaks of. As for the number of fixteen thousand, shree hundred, and eight y foure, albeit of u felf, it is distill fible by two till you come or distend

to 1, yet we mast not consider it apart, as an abstract by it selfe, but as it numbreth, and is applied to the Phalange. In which respect, it gineth a 1024 files of 16 deepe, which files will fill hold out the doubling, till you come to one file.

3 A Phalange to confift of 16384.] Atian (out of the most Tattick writers as be professesh) will have the Phalange of fixteene thousand, three hundred, eighty and fouremen. I have noted before that a Phalange may be more, or leffe, than this number. But Itake this to be the number of the Macedonian Phalange. Appian seemes to testifie a Appian in with me, thus he faith : Antiochus whole aimy coniisted of 70000 men. Of Syracistor. B. which the chiefest strength was the Phalange of Macedonians, conteining 1 6000 men, ordered according to the forme, that Philip and Alexander had before vsed. He placed them in the middle, dividing the 16000, into 10 equall parts, in every of which parts was 50 men in front, and 32 in depth, and vpon the flanks of energy part 22. the shew of the Phalange was like a wall, of the Elephants like turretts: hitherto Appian. I have translated He Phalanx, He Macedonon according to the word, the Phalange of the Macedonians, where the right meaning is, the Macedonian Phalarge. For it confished not of Macedonians, but was armed, and ordered, after the Maceden an manner. For how was it possible for antiochus to wage, and haue in his seruice 16000 Macedonians, being neuer him/elfe King of Macedonia, and the King, that then was (namely Philip the Conne of Demetrius) was his enemy, and in league with the Romans? Besides Appian bath in expresse words: the Phalange was armed, and ordered, according to the inftitution of Philip and Alexander: whose manner Antischus mought well reteine, considering he was lin: ally descended from Seleucus, the succestor of Alexander in the kingdome of Afteria: And Seleucus had beene in the service of Alexander in the whole conquest of Persia. Liny saith also, they were armed after b Liv. Decad. the Macedonian manner. Whereby a man may inferre, they were no Macedonians: Hee 4 12.7.141.A. speaking of the same battaile (which was the battell of Antiochus against L. Scipio) bath thus: The Kings army was mingled of fundry nations, and divers with diffimilitude of armes and aides. There were 16000 footearmed after the manner of the Macedonians. They were called Phalangites. This was the middle of the battell, and in front divided into 10 parts, which parts were diftinguished by placing 2. Elephants in each intervall. The battell had 32 rancks in depth. It was the principall strength of the Kings forces, and both with the other shew, and also with the Elephants, which were eminent amongst the Armed only, brought with it great terror. Liny saith the 16000 were armed after the Macedonian manner, and were called Phalangites; Appian, that there were 16000 ordered, and distributed according to the ordinance of Philip and Alexander. Liny, and Appian, both agree, that there was 10 parts, and every part severed with intervalls, and had 32 men in depth, which is the Macedonian file once doubled. Livy Speaketh not of the number of the length of the Phalange. Appian faith plainely there were 50 in front, of every of the 10 parts, which amounts to 500: for 10 times 50 makes 500. Now if you multiply the length of the Phalange which is 500 by the depth, which is 32, you have the 16000, whereof Liuy and Appian spake. But yet resteth a doubt, in the difference bet wixt both these authors, and Elian. Livy, and Appian, both gining but 16000: Elian 16384 to the Macedonian Phalange. For Livy, we are not much to infist upon him, who being a Roman (we may probably coniecture) was halfe a stranger, in the Art Tacticke of the Gracians, and that, which he wrote, he had from others; perhaps no better skilled in the Same Arithan himselfe. Appian was a Gracian (for so those of Alexandria in Egipt accounted themselves after Prolomy the first had established that Crowne in his family) and as his historie shewesh, well acquainted with the order the Gracians held in embatte-

b Xcnoph.

468. B.C.

ling their armies, and therefore we may the better rely upon his authoritie. Who albeit hee first affirmed the Phalange was of the number of 16000, yet after in numbring the depth and length alone, he findeth 16000: and further expounding his on ne meaning he sheweth, there were more upon the flanks of the ten parts, into which the Phalange was duided. His words import: That Antiochus divided bis Phalange into 10eanall parts, giving every part in front 50 men, in depth 32; which being multiplieu together, make up the 6000. He addeth; And in the flanke of every part he let 22. If the meaning be, he (et 22 vion each flanke of every part, the parts being 10, and the flanks 20, the number will arife to 440, where Elian alloweth no more than 284. But if 22 were added to one of the flanks of each division, n hich also being collectively taken are flanks in the plurall number, we shall come short and finde no more shan 220. Tet whether fense of both you agmit, it is plaine, that Appian attributeth more, than 16 thousand, to that Macedonian Phalange. And it may be, there is an error in the number of the 22, and that it ought to be written ; 2. For if Antiochus had given 32, as he gave 22, to one flanke of every part, and let 22 wpon the vitermost flanks of every winge to firenothen them, of the 12 times 32 had arifen the inst number of Alians Phalange; which number is the fittest, for vie, and for division of the Phalange in all doublings. The armed foots then, according to Alian, ought to be, 16284. The light armed.

4 Halte fo many The armed among St the Gracians, were accounted the firength of the field, which was the cause their number was greatest. For you shall not finde in their battailes for the most part, that the light armed amounted to halfe the number of the armed: The fact of Cyrus (heweth what account be made of light armed: 2 Xenophon reporteth it thus: He led with him the Lydians, those whom he saw to take delight in Armes, horse, and chariots, and willingly doe, what they were commanded, he gaue armes to, of those whom he saw followed him against their wils. he gaue the horses to the Persians, that were his first companions in Armes. All that followed him vnarmed, he exercised to the sling, because he reckoned that weapon most servile of all others. How much you increase the number of the light armed, fo much you diminish the number of the armed, and by consequent fo much weaken your field. For the light cannot maintaine any stable fight, but in case of danger Cyrop.lib.6. they are forced either to show a faire paire of beeles, or else retire to the armed for succor : Tet feruettey for many refessoyned with the armed. And the proportio that Elian fetteth downe, namely to have halfe as many of them, as there are armed, flandeth to good reason, & wfe The Romans notwithstanding were more sparing in their light armed of allowed not about the 4th part of them, or little more, to the armed. The Legion conteined (faith Polybius) 4200 footmen. Of these they chose 600 Triarians, 1200 h stati,1200 c Polyb lib 6 Principes, (which come to 3000) and the rest Velites, which were 1200. And the Velutes were the same in effect amongst the Romans, that the light armed among st the Gracians, albeit their arming somewhat differed. Elian before shewed, that the Gracian light armed had no manner of defensive armour, but offensive only, as bowes, darts, or flones. d Polybus describeth the Armes of the Velites to be a Sword, a Payma, (which is a small Target,) and daris; the sword a spanish sword, the Target a little round Target, a foote and a halfe (for so Cassubon correcteth Tripedon) in breadth; the darts in the stea'e 3 footelong, and a finger thicke, and the head ale Live Decad. inoft a foote long. And Livy mentioning the skirmifhes, that fell out betwirt the Albanys is horsemen of King Philip of Macedonia, and Sulpitius the Roman Conful, compa-

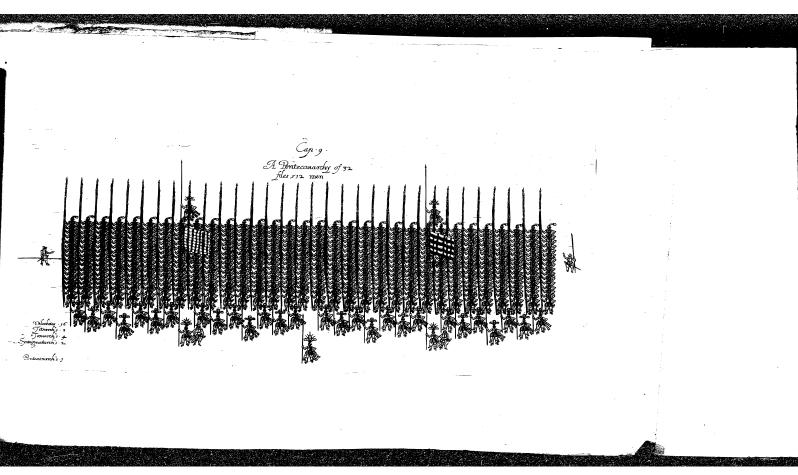
reth both their Armies together, telling that either party had their light armed toyned to

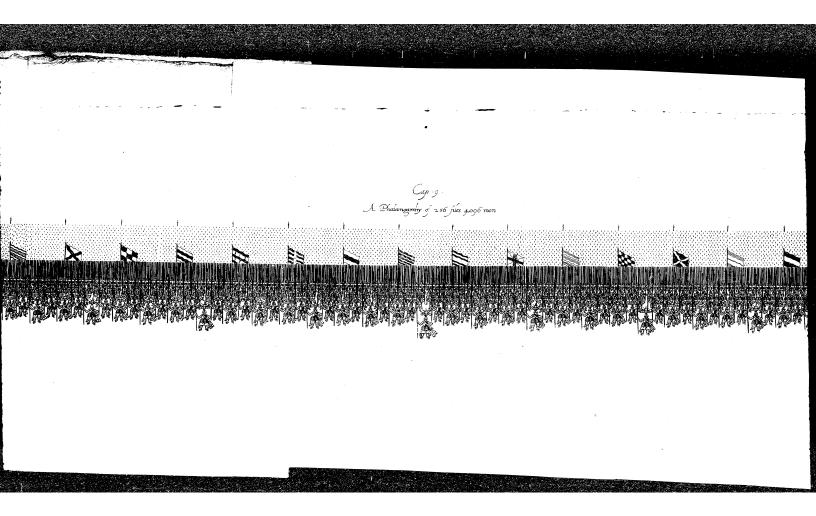
their ho fe, and that comming to fight, the Romans had the better. So (faith he) nei-

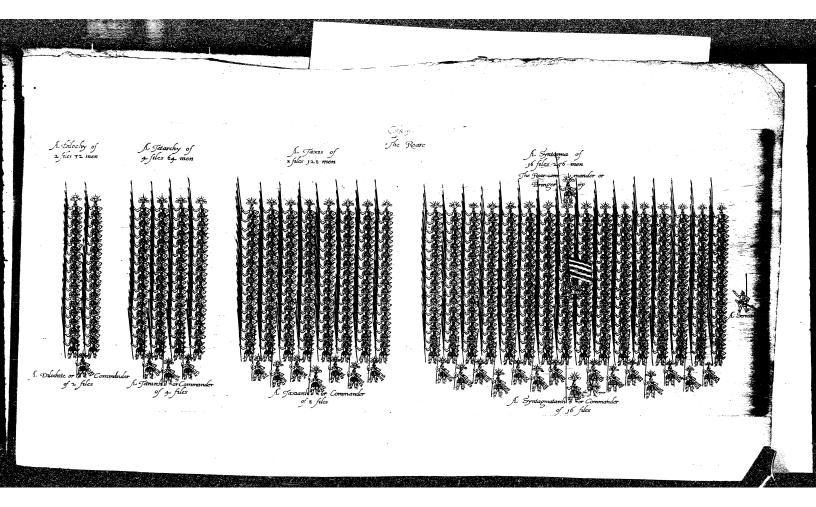
ther the Kings horse, vnaccustomed to a stedfast fight, were able to match the

Roman horse, nor yet the soote skipping and leaping here and there, and almost halfe naked in their kinde of Armes, to be compared to the Roman Veles, having a Target, and a fword, and being armed fufficiently both to defend himfelfe, and assaile his enemy. The number then of Alians light armed, ought to be 8192, and thele being ranged behinde the armed 8 deepe (so they are fistest for fernice) will make 1024 files, as many as the armed did.

Halle as many horse, as &c.] The horse are in number 4096, and proportioned to the foote (comprehending the light armed) as 1.106. The armed foot, and light armediogesher make 24576: the horse 4096. And this was Alexanders proportion, a Diodoc St. when he moved first against Darius. For he had about 3000 foote, and 5000 horse, cul. Lb.17.171. or not many more, as Diodorus saith. Lustin gives him 32000 foote, 4,00 horse. b suffin lb.11. Tee this number held not alwaies among if the Macedonians themselves, I meane Alex egs. anders Captaines, that possessed his kingdomes after his death. Thereason may be, that in Civill warres they made their levies, not as they would, but as they could. In the bat- Diod. Sicul. taile betwixt Eumenes, and Craterus, (I spake of that battell before) Craterus had lib. 18. 644. 20000 foote, & 2000 horfe; Eumenes had 20000 foote, & 500 horfe. Craterus the proportion of 1.10 10; Eumenes of 2 to 4. d Antigonus fighting against Eu- d Diod Sicul. menes in Cappadocia, had in his Army abone 10000 forte, and 2000 horfe; Eume-lib. 16.649. nes nad as before. Antigonus horse were to the foote, as 1. to 5. "The same Antigo - e Diol. Sicul. nus fighting against Alcetas, the brother of Perdiccas, hadin his Army 40000 foote, lib.12.651. and more than 7000 horse; the proportion well nigh of 1. to 6; Alcetas had no more than 1 6000 foote, and 900 horse, failing much of Elians number. f Antigonus in & Died. Sicul. his second battell against Eumenes, had 28000 footmen, and 800 horse, which is 1. to its 19.68; 3. and halfe; Eumenes had 3 5000 foote, and 6000 horfe, very neare Elians proportion. Many other examples are to be read in Diodorus. But (as I faid) these are Ramasses proceeding not of choile, but of necessitie, which forced them to take such, as came to hand; as it alwaies fallethout in soldaine leuies. And it seemeth the number of horse (allowed to the foote by Elian) was King Philips proportion; considering Alexander roled it & after bereceived his armie from Philip, who by prameditation, and fore-choice, g Died Sicul. had gathered it together with intent to invade Persia. And yet I finde h that Philip 16,16,510. has gamered it together with intent to in once Fellal. Complete Special had more h Diod.Sec. himselfe, when he fought against the Athenians end Beotians at Cheronea, had more his to 555; than 3000 foote, and 2000 horse; which is 1. to 15: and in discresother fights differed from Elian in the number both of horse, and foote. But the question is not, what was done, but was best to be done. And the number that Elian speaketh of suites his Phalange best. For Philips device being to cast the horse into wedges of 64 horse a peece, and into 64 troupes; the greatest ranke of ech wedge being 15, will in the reare equallthe front of the armed, and of the light armed; not in number of files (for the files of the foose were 1024. and the greatest ranke of the horse, no more than 960) but in quantitie of place giving to the horle, standing in their order of 6 foote betwirt man 6 man, the 128 cubits of surplusage toward the difference of the horses bodies, and toward the small spaces that are to be left, betwixt Troope, and Troope. The Romans ; Polyblib 6, alloxed a farre leffe rate of horse to the foote. In a Legion, according to Polybius his 472.C. account, there were of Citizens 4200 foote, and 300 horse; of allies, and consederates 4200 foote, and 600 horfe. In a Consular Army were 2 Legions of Cuizens, and 2 of Allies, which came to 16800, a number not much differing from Elians Phalange of foote. Of horse 600, Allies 1200; in all making 1800; which commeth much short of 4096, (the number Elian alloweth to bis Phalange) and holdeth proportion of about 1. to 9. The reason of this difference, may appeare in the fact of ' Eumenes; who not to Diod Sicu i. much trusting his forces of foote against the Macedonians (accounted the best fouldiers bis. 649,







fill their number, and have every one a severall Commander. The least is two files toyned together, which is called a Dilochy; And because there are in Phalange 1024, files, there must also bee \$12. Dilochies, which consist of two files a perce. If you double this body of two files, and make thereof a body of foure files, it hath an other name, and is called a Tetrarchy, of which Tetrarchyes there are 256. in a Phalange. Double againe thefe 4 files; and make 8, the body is called Taxis. And these eight files, being doubled bring out the Syntagma of 16. files ; which is a square number of men, 16. in the front, and 16. in the flancke. And so proceeding still in 6. doublings more, you come at last to the fourefold Phalange containing the number of 16384. men, and 1024. files. Now as in the Phalange there are LC. bodies out of these doublings, the Dilothy being the first, and the fourefold Phalange the last: So doth Elian, appoint for every body a Commander, who albeit they severally command, each his owne troupe, yet are they subordinately one under an other, the leffer under the greater till at last the fourtainty of the command rest in the Generail of the Army. The Dilochites are directed by the Tetrarches, the Tetrarches by the 1 Xenoph.

Taxiarches, the Taxiarches by the Syntagmatarchs, the Syntagmatarches by the Pentecofices, 2, 203, 4. arches, and they by the Chiliarchs, ouer whom are Merarches, and ouer the Merarches the Phalangarchs, and ouer them the Commanders of the winges, or Diphalangarehes, and the fourratione of the Armie or Generall is the highest, and last. The number of these Commanders a man would think were to no great purpose being in all (the 2. Diphalangarchies therein comprised) 1022, besides the file Leaders, which standing in the heades of their files, amount but to two men more; that is to 1024. For formany (as I have faid) are the files of the Phalange. But if the conveniency be observed, it will not seeme impertinent. For all the Leaders being in front, (therefore are they called Leaders, because they pre- b Xenoph,

cede, and the rest follow, I it makes both a gallant show; and that rancke being as it were, Cyre the edge of our battaile, not only serves to hew a sunder, and rent apieces the forces of our 2; C. enemie; But also standeth as an assured bulwarke of defence before the rest of the Armie, that followeth. And it is well noted by Leo, that the multitude of Commanders c Leo cap. 4. (in orderly divisions) both signifies, that there are many worthy and valiant men \$13. in the armie: And is a meanes to keep the Souldiers in greater obedience, and to give vindoubted effect to all directions. Of what qualitie and disposition, these Leaders ought to be, you may (ee in the * fourth Chapter of Leos Tactickes. Onely I will * Leo cap. 4. adde, that as they are higher in dignity, so ought they in vertue and valour exceede those, that are under their command.

1 A Dilochy | Consists of two files; for so signifies the word Dilochia: and the Lea-Dilochia. der is called a Dilochite.

2 A Tetrarchy of foure files ; and the Leader is called a Tetrach , one that bath the command of four efiles. And here I must once more admonifo, that in the words of divers signification, we must not weigh, what is the proper signification, but how they are weed in this Art, and booke.

For the word Tetrarch lignifieth sometimes a King : as Helychius hath : and d Deie- d Cicero id tarm in Tully is called a Tetrarch, and e Herode in the Gospell; who both are common-orat, pro ly knowne for Kings. Theffaly likewise was divided into 4. Principalities, Theffali-Denaro. otis, Pthiotis, Pelasgiotis, and Astiotis; whereof every one was named a Tetrarchy. Onely the difference is, that a Tetrarch being a King, or a Governour, signifies him, that hath the government of the fourth part of the land, (for a Tetrarchy is the government of the fourth part) But a Tetrarchy in Alian signifies a body military consisting of foure parts (4. files) and the Tetrarch commands not over one alone, but over all the 4. parts. 3 A Taxis] As the word Tetrarchy is diversly taken, so is Taxis likewise. For

Sometimes is imports Order in a generall signification, as I noted before: Sometimes the

rop lib. &. 202. C. 35 F. h Polyblib. 12 666 B. 42 D. k Polyen-lib. 3. 5 10 in 1 hi-

f Polyb lib. 3. forder of a battaile: 5 sometimes a company of any kinde of Souldiers, foote, or horse 225. B. & lib. as Taxis Pelrastarum, Taxis Equitum ; Sometimes a fingle Phalange , as in h Arrian mention is made of Taxis Oceni, Taxis Perdicca, and Taxis Meleagri &c. who were Phalangarches, as the story show th. i Sometimes for all the armed, as Taxis Pha-325 B ex Cy- langitarum: Sometimes a rancke of men standing embattailed, as in Thucidides, who discribing the battell of the Lacedemonians, (att the front (which he callet the first b Arran lib. : rancke teen proteen Taxin) consisted of 448. Eut in a more speciall signification it is taken for a band of Souldiers. And in that signification the number varieth. In Xenophon, it comprehendeth a hundred men : What the number of the Athenian Taxis : Xenoph.Cy- was, I finde not delivered by any Writer. That they had Taxiarchs & Polyenus Sheweth plainely. And if a man with leave might geffe, I would imagine their Taxis confifted of 250 men : For I finde in the same place of Polyenus , that they had Chiliarchies, Pentecosiarchies, Taxies, and Lochagies. I have before shewed, that Lochos in Xenophon is made sometimes of about 100. men. Out of which may be inferred with probability, that Taxis, being the next degree about the Lochagie, bath the double number, or more; The rather because a Chiliarchy hauing in it a 1000. the Penticofiarchy must have 500. and by likelihood the Taxis 250. as being the next office under the Pentecostarchy. But what some the Taxis of the Athenians, or of other people was, Alian maketh his Taxis up with 128 men, and 8. files , which is a double number to the Tetrarchy. With whom Suidas agreeth, giving 2. Tetrarchies to a Taxis: and faish it confifts of 128 men. The Commander of the Taxis is called a Taxiarch, as the Commander of the Tetrarchy is a Tetrarch. Here I am to note by the way , that the Interpreter of Xenophon translateth Taxiarcha, the Commander of a Cohort; where Taxis in the fraighter fignification cannot be taken for a Cohort because a Cohort differeth much in number, having in it at the least 500. and odde men, where the Taxis, when it is greatest hath no more then 128. And 1 Polybius faith plainely, that spira is the Greeke word, that fully expresseth the Romane Cohort.

641. C.

lib. 13 391,

• Cap. 31.

Suidas in

4 A Syntagma The word commeth of Syntaffo, or Syntatto , to place together ; and a Syntagma is a body compounded of many parts artificially put together. " But it hort Syntams, may be taken for any body in the armie. " Diodorus reports of Dionyfius the elder That lib. (64) C after he had divided his whole Armie, (which had in it 30000) into three parts, he imployed two against the Carthaginian Campe in divers manner : himselfe tacke the Syntagma, or third part, which confifted of mercenary Souldiers, and led against that quarter of the campe, which had the Engins. * Ælian alfo wfeth the word diversie; For he calles the whole armie by the name of Syntagmata, in the plurall number, and sometimes Syntagina in the singular. And further gives the same name to a file; . Suidas likewise discribing the length of a Phalange, saith, it is the first rancke (Symtagma) of file Leaders, which stretcheth forth in a right line from winge to winge. Whereby appeareth that which the Logitians affirme, (which I touched before) that there are more things then names of things: And that fit names cannot be given to all. The names that have beene given by antiquity, to expresse the severall bodies of the Phalance, are to be reteined by vs. as proper enough to signific the thing they meant. Neither are we to vary from them, whileste we our selves con invent better. The Syntagma that Elian here mentioneth is framed of two Taxies, that is of 16. files, & of 256 men. The Commander of it is named a Syntagmatarch. And where he addeth, it is called of some a Xenagy, we are to understand that P Xenagos was he (amongst the Grecians) that had the command of a band of strangers, (as he that levied strangers was called 9Xe-Iul. Poll. lib.r. nologos) and the band it felfe was called a Xenagy. Why the Syntagma fould have the a Polyb.lib.s. appellation of Xenagy, Icannot divine; onlesse the reason were, because it was about the

number wherof strangers made their companies, that served amongst the Gracians. And Ithinke , and shall till better information, that the body of the light armed called a Xenagy mentioned bereafter, had that name likewife for the same reason. Now of all the bodies in this Chapter mentioned, there is none that commeth fo neere the companies weed at this day, as doth the Syntagma, for (excepting that our numbers differre, and are in diners places more, or leffe) the offices of each are alike. Tou have in the Syntagma & Lieutenant or Reare Commander; fo in our Companies. In the Syntagma, is an Enflone. and an Enfigne-bearer; the like in our Companies. In a Syntagma is one Sergeant, our Companies have more. The Syntagma had a trumpet, and our Companies for the most part have two drummes. We onely want a Crier, which every Syntagma among ft the Macedonians bad. What the wife and place of all the Officers was , I will straight

5 Fine superordinarie men ;] Namely the Ensigne the Reare-commander, the Trumpetter, the Sergeant, and the Crier of whom we last pake. That which I translated, superordinary, is in Greeke Ectactoi. Suidas gines the reason, why they were for Suidas in called : because (aith he, they were not numbred as part of the battaile, that is ordered in Ecalos. files & ranckes. As Xenophon faith of Miriarches, Chiliarches, and Taxiarches, & (Xenoph, Cyother Commanders (whom Cyrus called to him) that they were not recounted among & rop. lib. 3.78 the militarie numbers, and might depart from the Phalange without altering the forme thereof. In the files they could not be, because they (hould so increase the number in the files, and make one longer then an other, and hinder doublings, and other metions, besides the deformity, they should bring in, in making the battaile uneven: And a file of themselves they could not make. The like disorder would they bring in the ranckes, where they could not conveniently stand, unlesse some body filed with them, being much short of a file of themselves. Besides their imployment is to stirre here and there apart, as they are commanded: where they of files, and ranckes never move fingle, but iointly, as shall feem good to their Commander. And albeit thefe five bee removed from the bastaile, yet remaineth the battaile without them entire of it selfe, and in perfect forme, as though there were no neede of them, when notwithstanding their vie is otherwise (o needfull that although the battaile may be, it cannot well be without them.

An Enfigne | Our wfe is to call the Enfigne-hearer an Enfigne for breuities fake : As a Drummer, a Drumme, a Trumpetter, a Trumpet; and that not absurdly. A distinction will easily appeare in common speech, by the application of words of circumstance to the one, or the other. The end why entignes were divised appeareth in Diodorus Siculus; Diodor Sihe gining divers reasons, why the Ægyptians (whom he accounted the ancientest of men) were carried away with superstition of worshipping Beasts, after the manner of the Countrey, hath amongst other words thefe in effect : A fecond caufe the Lepptians give. because of old time being in divers conflicts thorough disorder in their Armie, vanquished by their borderers, they had recourse to the invention & bearing of Enfignes in their troupes. They fay therefore, that preparing images of the beafts, they now worthippe, and fastening them to the ends of long states, the Commanders caused them to be borne aloft; by meanes wherof every manknew of what troupe he was. And seeing this good order availed much to victorie, they conceined, that the beafts were the cause of their safety. In recompence whereof they ordered, that none of these beasts should be killed, but be honoured with religious care and worthip. Ensignes were then deuised for readines to direct souldiers in particular, whither to refort in time of fight. " Czas practife agreeth bereto : " Czas de he telling of his owne fouldiers diforder hath thus : Whatfoeuer part they came into bell gall lib : by chance, and to what Enligne focuer, there they flaied, leaft in feeking their

the middest of the Battaile, I see it controverted. Patricius absolutely affirmeth, that f Paric. Parall,

she Enlignes were placed in the middeft of the front, and had 8 files on the right, and prealibite. Sonthe left, to the end they might be seene, and followed by all. That Ensignes were care.

u Vegethb. 2 Ownethey might happily lose the time of fight. And Vegetius enlargeth the cause cap. 13.

embattailing of an Armie was quickly brought in route, and confusion, to avoide this inconvenience, divided the Cohorts into Companies, and appointed an Enfigne of enery Company. So that in the Enfigne was written, of what Cohort and of what number in the Cohort the Companie was. Which the fouldier feeing, or reading could not eftray from their Companions, though the tumult were never fo great. * Leo alfo maketh this the ofe of the Enfigne: Wee command allo, faith he, that the heads of the Enfignes of every Company or Band be of one colour, and that the lilke of euery Turme, or Drunge, haue a colour by it selfe. And to the end that every Companie may with eale know their owne Enfigne, other markes and tokens are to be added to the heads of the Enfignes, that according to Turmes, and Drunges, and Companies, they may be knowne. But in any case, let the Enlignes of euery Turmarchy be different one from an other, & cleare to be discerned, that the fouldiers may know them even at a farre distance. His meaning, as Itakeit, is that every great body or regiment (bould beare in their Ensignes alererall colour, and that the Companies of that body (hould likewise hold themselves to in fame colour in their Ensignes: So notwithstanding that (as the ve is at this day) the in fignes of every Company should have a severall marke to bee knowne by , besides the colour in generall. For so both the Regiment may be quickly discerned, and one Company with facilitie be distinguished from another. What the forme of the Ensigne was. we may out of the former place of Diodorus fee : The Ægyptians, faith he, counterfea. ting the shape of those Beafts, which they worshippe, fastened the Portract to the end of long staues. Y Xenophon testifies the like of the Standard of Cyrus. y Xenoph.Cy-Cyrus ((aith he) commanded his army to cast their eyes vpon the Standard, and to follow it with equal pace, and in order. The Standard was a golden Egle stretcht out vpon the end of a long staffe. Which Standard is at this day the Stan. dard of the Kings of Persia. The Ensigne was nothing elfe, but the sigure of some beast advanced high upon the end of a long staffe. As of an Egle, of a Wolfe, of a Horse, and such like; and sometimes they added peeces of coloured silke fastned under these images to make a greater difference betwixt the Enfignes. Whether our Enfignes at this day, made of many ells of Tuffaty, or the ancient Enlignes of the Gracians (Imay alfo adde of the Romans, for they obscrued the same forme) are the better for vie, I will not now diffuse. Imay notwish flanding freely fay, that the stronger reason weighth for the Ancient. For besides the authoritie of such excellent wits, as they were, and so exquisite in their inventions, the reason of the lightnes is to be preferred : Besides the winde hath no such force over them, and they neither hinder the Souldiers, that stand next by entangling, nor by flapping in their faces, nor take away the fight of such things as are to be observed and regarded in the field. For the matter whereof the Enligne was made, ' fee lustus Lipsius in his Commentaries to Polybius. As for the armour of the Enfigne-bearer (effecially the Enfigne-bearer of the armed) Itake it (for I have no anthornie therein ; that be had the fame defenfine Armour that the Souldier which fought

ander the Enligne had (excepting the Target) both to affure himselfe from the flying

weapons of the light armed, and from the pike and fword of the armed, in case the bat-

taile were entred and pierced as farre as the Enfigne. For it was no reason, he should

carry a Target , left both his hands foould be bound , the right with the Enfigne, the left

with the Target; and so he have no wse of either against the enemy. And in the left

band I would give bim a speare, or muelin, (not a pike, which cannot be weilded with one hand) for his owne defence, and to offend the enemy. Which weapon, I have read En-

Dulog, c.

rop. hb. 7.

first invented to be a marke of severall bodies military in an Army, I have before showed. But it followeth not thereof that they were placed in the front in time of fight. For being an the middle, they no leffe gaue notice, what the body was, than in the front. The reason of following is of leffe force; Inasmuch as the Souldier well knoweth whom to follow, hough he had no Entigne at all, the Commander alwaies with his motion giving him diection, when to advance forward, when to turne his face to the right, or left hand, when to countermarch, when to double, and when to vie all other motions military. And be Commanders were therefore called Leaders, because they went on before, and the Bouldiers followed after. So that the Enfigne, in regard of following, neede not to be tin the front. & Tet in exercifine the troupes, and in marches, I finde, that the Ensigne & Leo. cap. 7. was in the front, together with the Captaine, Crier, Trumpeter, and Guide. But \$53. & cap.14. take the reason to be, because being in the middest, and having neither file nor ranke with the rest, they might happily bring a confusion, and be a hinderance to the changes, and diers figures of the Battaile. When the time of fight was the Enfigne retired to bis place. hat is to the middest. For so h Leo interpreteth himselfe in his precept of closing files: h Leo cap. 7. which must be done, saith he, not onely by File leaders in front, Commanders of five, and \$ 33. ringers-up in the Reare, but in the middest also, where the Ensigne standeth. And rather agree to Leo herein, because I see, it was the manner of the Romans also, to ace their Ensignes in the middest of their Maniples. From whence came the appel- i Lipsus ad tions of Antelignani, Souldiers that flood before the Enfignes, and Poftlignani, that Polyb. lib. 4. and behinde. Besides the Ensigne being in the front, the Ensigne-bearer mer foone a clap, who falling, the Enligne goeth to ground, and is in danger of loofing, which as the greatest disgrace among the Romans, that might befall. Lastly, & Elian him- k postea c.20. efe in plaine words placeth the Cornet of horse farre from the front. For speaking of ordinarie Horse-troupe, he saith it is to consist of 64 horse, the first ranke of 15 Fre, the 2 of 13, the 2 of 11, the 4 of 9; descending Still, and diminishing 2 horse in cry ranke, till you come to one. He addeth; he shall carry the Cornet, that standeth the second ranke next the ranke-Commander on the left hand: which ranke is e fecond ranke, himfelfe declareth, making the ranke of 15 the first, the 2 the \$2; hich is the 7th from the front, and next the reare but one. If the Cornet have no place front, why hould the Enligne, confidering both ferue to one vee, and the reasons of eing, and following are equall to both? And albeit 1 Suidas place the Enfigne, the 1 Suidas in rier, the Trompet, and Sargeant, before the Battaile, the Lieutenant in the reare, is not withflunding to be understood, of the times of marching, or of exercise, which I ote: before. For what (bould that Rable of unarmed (being 4. in enery Syntagma, and the whole Phalange 256.) doe in the front in the time of fight , but onely pefter the nof nof the Armie: who therefore have the front, that they may make speedier way into c enemies battell? 7 A Reare-commander Was the same that a Leutenant is with vs. He comandeth the Souldiers in the Rearc, no leffe then the Syntagmatarch in the front, and A his place in the Reare. What the duty of a Reare-commander was , I have shewed of " Cyrus words in Xenophon. And " Elian afterwards fetteth it downe most in Xenoph. mainly. He was armed, as the rest of the armed of the Syntagma, namely with Pike, and Cyrophib.6. get 1, and with (uch other armes, 25 I have described in my notes upon the second a poster es.

8 A Trumpet]

a Suidas in

8 A Trumpet. The invention of the Trumpet is attributed to Tirrhenus Hercules sonne. But the different wie of these officers is worth the noting out of "Suidas: The Crier, faith he, ferueth to deliuer directions by voice, the Enfigne by fignall, when notic taketh away the hearing of the voice: the Trumpet by found, when thorough thicknes of dust a signall cannot be discerned: The Sargeans to bring such things, and dispatch such messages, as his Syntagmatarch commands. So that thefe officers were held all necessary for a Company, the one supplying the defect of the other, and ferning for wfe when the other failed. The Trumpet then was to be vfed according to Suidas, when neither the Crier, nor Enfigne could doe feruice. With the Trumpet was the fignall given for the Campe to remove, for the Campe to lodge. By the Trumpet the Souldiers were taught their time to fight, their time to retreate. The Trumpet fet and discharged the watch. From the Trumpet came the measure of the Marche, and the quicknes, and flownes of Pace. In briefe, the Trumpet did all the offices, that the Dromme doth with vs at this day. Whether the Trumpet or Dromme. are of most vie in the field, I may not now dispute. Onely I will fay that the Gracians and Romans the most expert and indicious Souldiers, that ever were, held them elues to the Trumpet, and never wfed the Dromme. The Dromme was first invented by b Polyendio 1. Bacchus, who, as b Polyenus reporteth, fighting against the Indians, in stead of Trumin Backhos. 1. pets, gaue the figurall of Battaile with Cymballs and Drommes. From him it came c Curringlib, & to the Indians, who wfed it altogether, as Curtius noteth in the battell betwist King Alexander the Great, and Porus. The Dromme of Parthians is described by d Plud Ploterch.in tarch in the life of Craffus; and by Appian. I And Leo faith, the Saracens, e App. in Par- who invaded Christendome, and infected the Turkes with their superstition, ordered their fights by the Dromme. From this Easterne Asiaticall people it was brought into Leosap. 18. Europe; and now the generall custome is among stall European Nations, that the foote have Drommes in the field, the horse Trumpets. And yet for the Trumpet. I can Plutarch in not fay, that all the Gracians held themselves precisely unto it. 5 Plutaren much commendeth the Lacedemonian manner of ioyning with the enemy, and writeth it is in this fort: When the King hath offered the Goate (that was the Lacedemonian facrifice, when they were to giue battaile) hee straight commands all the Army to crowne their heads and the Flutes to found the measure of "Callor: And himfelfe withall beginneth the ' Paan; (the fong they yfed when they were to charge) and Pollux.hb 4. advanceth first against the enemy. So that it is a braue, and no lesse fearefull thing Cap. 10 \$ 2. to behold them pacing according to the measure of the Flute; neither diffoluing their order, nor thewing any aftonishment of minde, but mildely, and toyfully Arollo, Ital. approching the danger of conflict, dividing out their Marche to the found of the Poliux, bb. 1. cap.1.5.33. instrument. For it is not likely, that men so demeaning themselues, can be transported with feare, or choler. Nay rather they must needes have a setled minde full of hope, and affurance, as if God were present on their fide: thus Plutarch. Out of whose words it is cleare, that the Lacedemonians weed no Trumpets in fight, but Flutes, and made them their inftruments to daunce, as it were the measures of warre k Thuryd, i.b. by. For they wied an easie, and slow pace, framed k to the cadence of the sound; 1 Poyen b. t. which may well be refembled to the folemne measure, in dancing. Athenœus rehearin Prode. S. s. feth out of Herodotus, that the Lydians ofed the like. But he addeth; that the Cretans

Lycurgo.

m Ather and madechoice of the Harpe for their instrument of warre ; as though it had beene peculiar tothit nation. " Paufanias testifieth the like of the Lacedemonians. " Polybius 20eth not fo farre, but affirmeth onely that the Cretans, and Lacedemonians in fead of Liconers 193. Trumpets brought in Flutes, and measures into the warre. And if it were so that the Lacedemonians wfed Harpes, it is like, they tooke them from the Cretans. For I finde

in ? Plutarch, that Lycurgus brought many of his lawes from Crete, and had great p Plutarchia familiarity with Thales the Cretan, whom he also fent to Lacedemon, to make an over-Lycurgo. ture for the establishing of his lawes, that were then newly finished. Let & Diodorus a Diodosus, Siculus reporteth, that the Lacedemonians wfed alfo Trumpets in their Battailes. He lib. 15. 475. writing of a fight that was bet vixt the Thebans, and Lacedemonians under the leading of Agelilaus, weeth these words in effect : There was altrong fight betwint them a long time, and at first Agesilans had the better; but afterward, when the Thebans issued out of the City at all hands, Azejilaus seeing the multitude, caused the Trumper to found a retreat. The figne of retreat here, was given by Trumpet, and it feemeth the Lacedemonians had the wfe both of Trumpet, and Flute. " Of the religion, liber Flute in pacing toward the enemy to some battaile; of the Trumpet in all other mil tary in Procle Set. Flute in pacing constraint enemy to topic variance, of the Attinger and Trumpet, Faunt alla-fignalls, fuch (I have before notedit) as the reft of the Gracians gave by Trumpet, Faunt alla-The place of the Trumpet in the sime of the Battaile was nithin the Phalange by the Enfigne. Thucydides placeth the Flutes of the Lacedemonians within the battatle, Thucyd. lib. where they can finde no roome, unlesse they stand by the Entignes. And albeit Polic- 5 393nus faith, the Flute led the Army, and went before, yet that is to be understood in the in Proces, i. marche. For incase of a Marche, or exercise, " Leo also giu. the Trumpet place by u Leocopy. the Captaine in front. When the fight commetin, he retireth himselfe to his place in the \$ 55. Battaile with the reft.

9 A Sergeant. The word Hyperetes signifieth a Minister, (which is all one with the French word Sergeant, as appeareth by the interpretation of our Law it felfe. wherein the Sergeants, next degree to luftices, are called fervientes ad legem. I reterne therefore the name of Sergeant, because it is familiar amongst souldiers. And a Sergeant hath the Same office in our Warre that Hypenetes had among st the Græcians. What his duty and Jeruice should be, is declared out of " Suidas. There were of x Suidas in these officers, as well among the horse, as the foste, as appeareth in Y Xenophon. The Echetos. estimation and worth of their places is expressed by the same Xenophon. Z Cyrus held Cyrop.lib.7. the Sergeants in warre, faith he, worthy of no leffe honour, than a meffengers, 191. A. and Embassadors in peace. He conceived that they ought to be trusty, skilfull in Cyrophib. matter of warre, vaderstanding, quicke, swift, industrious, and voide of feare; be-44 D. fides endued with all qualities requifite in the best fort of men; & that they were a See Suidas in to accustome themselves to refuse no manner of service, but willingly undergo whatfoeuer is laid upon them by their Commanders. Thefe Sergeants attended their Commanders in Marches, and other times, faue onely when Battaile was to be iorned, and alwaies expected his command. During the fight, they retired to some place. where they might bee ready at call; for (as I faid before) they could have no place in front.

10 A Crier. Concerning the office of a Crier, Suidas hathtaught ws, that he was to deliner the Commanders pleasure by voice. Leo calleth him Mandator, from the b Leo can to Latine word, because he signified to the souldiers, Mandata, the commandments of the \$16. Captaine. Inexercise he stood at the head of the Troupe, taking from the Commander the words of direction, and making, as it were proclamation of them to the Souldiers; and ferued often, when neither Trumpet, nor fignall might be given; be was otherwife also of great vie. For in all busines whi h required distinct signification of any sudden alteration in the Armie, the Crier had his part alone. " Xenophon telleth in the Gra- c Xenoph de cians returne out of Persia, that Clearchus their Generall led them not against the exped. Cyri enemy, both because their courages began to fall, and also because they were all the day fasting, and it grew somewhat late. But yet hee turned not out of the way, left he might feeme to flie; but holding on right forward, he came with the

vantgard, to the next Villages by fun-fet, & there quartered; The very timber of the houses of some of those Villages was broken downe, and carried away by those of the Kings armie. The first therefore lodged themselves reasonably, the last being be-nighted every man tooke vp his lodging as it fell out, and made a great noise, calling one after an other, so that the enemie heard it. Whereby it came to passe, that the next of them fled out of their tents. This appeared the next day, for neither was there carriage-beaft, nor Campe, nor smoake neere athand to be seene. The King also was terrified as it should seeme, with the acceffe of the Armie. Which he declared by the next daies worke. Yet in the procelle of night a feare feafed the Gracians themselves; and the tumult, and hurleburly was such, as is wont, when men are possessed with feare. Clearchus in this distresse commanded Tolmides the Elean , whom beethen had with him, the best Crier of those times) after silence, to make proclamation, that the Commanders fignified generally, that who focuer could bring foorth the Author of this tumule a About 2176 thould have a talent of filter for his paines. After this proclamation made by pounds starling the Grier the Souldiers perceived, that their feare was vaine, and that the Comcap. 6.430.437. manders were infafety: Hetherto Xenophon. By which narration may appeare, that the Crier performed that, which neither I rumpet nor other fignali could doe, the terror rising in the night (which is the time of confusion and disorder) and neither could the Trumpet give any certaine found to remedy the perill, nor any other figualibe differned by reason of the darknesse; and this service was done by the Crier amonust his owne folke. His service against the enemie is declared in the fact of b Cloorytus the Athenian Crier who after the fight, betwixt Thrasybulus and the 30. Tyrants (wherein Critics and Hippomachus were flaine) with a proclamation to the Citizens, reconciled them to Thrasvbulus, and was cause that the Tyrants were deposed, and had their authoritie abrogated by the people. The like feruice was done by a Crier in the behalfe of the Gracians against the Persians , about the time of the battaile of Platæx. The storie is this: c Diodor. Sic: c When the Gracians under the conduct of Leotychides, the Lacedemonian, and Xanthippus the Athenian, had gathered affecte of 250. Gallies together to the end to deliuer the llanders, and the Citties of the Continent of Afia the leffe, out of the servitude of the Persians, they failed out of Delos. The Fersians then remained at Samos. But hearing of the approch of the Gracians, they left Samos, and put ouer to Mysale a City of Ionia. And because they perceived their shippes vnfit for fight, they drew them on land, and fortified the place, where they landed, with a wodden wall, and a deepe trench. Neuertheleffe they fent for foote forces, from Sardes, and other the next Cities, and affembled to the number of a 100000 men: And made prouision for all things necessarie for warre, the rather, because they suspected the Ionians would revolt. Leotychides having put his fleete in order, failed towards the Barbarians, that were in Mycale, and dispatched away before a shippe, wherein was a Crier, who had the shrillest voice in all the Armie. Him he commanded to faile vp close to the enemie, and to proclaime aloude, that the Grecians having ouercome the Persians at Platae, were now come thither to deliucr and fet free the Gracian Citties of Asia. This was done by Leotychides to the end to diffeuer the Asian Cracians from the Barbarians, and to raise a tumult in the

enemies Campe. Which also came to passe. What service could becof more impor-

sance, then to fet a dinision betwixt the enemies ? It was done by the voice of a Crier.

More examples I could alledge, but thefe may suffice. The Criers place was alwaies to at-

tend the Commander in the head of the Troupes, wheffe in the time of fight; at which

time his voice could not be heard but gave place to the noise of Trume ets and classing of

II A Tetragonall forme] That is of four equall fides, or four esquare; But we must understand (which Elian after teacheth) that there are two kinds of Tetragonall, or square bodies military, one in number, the other in figure. In number, when the front, and flancke of the body have either of them as many Souldiers, as other; as the Syntagma bath 16. in front, and 16. in flancke. In figure, when the number of the front is greater, then the number of the flancke, and yet front and flancke fireschout an equal lengthof ground; as in the iquares of horie, whereof Elian feak to hereafter. This Elian cap. 18. last iquare is at this day called a iquare of ground, because the space of ground, which contesneth the length of the front, firetchethout juftly as far, as the space of ground, which conteineth the deepth of the flancke. It is caused by the difference of distance, which is betwist the Souldiers in front, and betwist the Souldiers in flancke. In front, being closed to fight, the distance betwixt Souldier, and Souldier, is but a cubite; that is a foote, and a halfe. The distance betwint souldier, and souldier, in stancke is two cubits, or three foote, which proportion will give no more, then halfe fo many men in flancke, as in front, and yet maintaine the trueneffe and enenneffe of the sides of the figure; that is the length of the line, which measureth the front, and flancke, shall be all one.

12 A Pentecoliarchie] The word is a command of 500, and that was some: imes the number. In the Macedonian Phalange, it comprehendeth a 512 men. The cause of difference is the difference betwist the file of the Macedonians, and the file of the ancient Gracians (wherof I have spoken before) the odde 12 men comming in by the fifth doubling of 16. And the number being so neere 500, though somewhat aboue, the name of Pentecoliarchie is still reteined, because it was then in vie, and no other more fit could be found.

13 A Chiliarchie] The command of 1000 men according to the name; Alian ginethit a 1024, from the doubling of 512. The Tribunes of the Roman Legions are by the Greeke Historians tearmed Chiliarchs; yet is there a great difference; for the Chiliarchs have no more command, then over their Chiliarchy confiling of 1000 men, and Sometimes of more, as herein Elian of 1024. But every Tribune had in his turne the command of the whole Legion. And against bere being 12 Tribunes, to every Legion (which at first hadinit 3000, afterward 4000, then 2 5000, and in the time of b Vegeti- : Plantch, in us 6000 men) how should a Tribune be called a Chiliarch and be a Leader of a thousand, Romuto. there being in the legion but 6000 men at the most, and yet 12 Tribunes; so that every suchs. enecould not have, above 500 for his command; and in Polybius time, (the legion be- e Veges lib. z. ing but 4200) not about 300 and odde. But the Roman manner of warre and ordering cap a. of troupes, differed much from the Gracians; and the Gracians in tearming a Tribune a Chiliarch, tooke the next word, and most significant amongest them to expresse the charge of a Tribune. Our Coronells, for their command, of a Regiment come neerer to the Gracian Chiliarchs; yet ours differ inthat they have Companies in their owne Regiments, which the Gracian Chiliarchs had not, and where Q. Curtius fatth, that d Quint, Curt the Chiliarchy was first instituted at Babylon by Alexander, as a reward for service, 165. 5. 106. it seemeth to be otherwise. For as I finde this in no other Author, so finde I, that Chiliarchies were long before Alexanders time. . Xenophon reporteth, that Cyrus to e Xenoph. Cygiue encourage ment to h's fouldiers to be valiant promifed to the Taxiarchs tomake them to the 1.43. Chilarchs, to the Lochagi to make them Taxiarchs, to the Decharchs to make them (Xenoph. Cy-Lochagi, to the Pempadarchs to make them Decarchs; f And that Cyrus made rop. lib. 88 B. Chryfanthas a Chiliarch of horfe in regard of his worth, and forwardneffe in feruice. & Xenoph. Cy-And afterward he calleth & Phranuchus, and Aftadatas, Chiliarchs of horfe, and Ar- 108. C. D. tabasus and Arragersas Chiliarchs of foote: h Polyenus witnesseth that in Iphicra- h Polyenlib.; tes his time the Athenians had Chiliarchs, and Pentecostarchs, fo that the institution in Iphicase

lib. 2. 474.

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of Chiliarchs could not be referred to Alexanders being at Babylon, confidering it was a Arrandibe, in ofe before; and a Arran reporting the same flory, faith not, that Alexander for & brought up Chiliarchies there, but that he orderned two Lochi in cuery horse troupe

where to that day there had beene none) and two Lochagi to command them. Indeed b Died Si ul. Diodorus Sicuius, writes thus concerning a Chiliarch. Antipater, faith he, lying 115. 12 553. vpon his death-bed declared Polyperchan Protector of the Kings (being the eldeit of those, that had served Alexander in his warres, and much honoured of the Macedonians) and his owne some Cassander the Chillarch, and second manin authority. The place and inflitution of the Chiliarch first grew to name and honor vnder the Persian Kings. So writes Diodorus of this Chiliarchy which Antipater beflowed upon his sonne Castander. Which notwithstanding seemes much to differ from the common Chiliarchy of the Phalange, wher of Curtius feaks. For Diodorus faith, he was next to Polyperchon in authority. Where in the Phalangethere were many Commanders, namely, the Merarchs, the Phalangarchs &c. abone the Chiliarchs. Adde that he faith, the institution of this Chiliarch came from the Persian Kings, when the Chiliarchs of the Phalange had their beginning from the Gracians, and were ordinarie in Phalanges, as I have shewed. Lastly where Diodorus reporteth, that it had the increase and advancement of honour from the Persian Kings, he (heweth plainely, it was not Alexanders invention. And the same Diodorus speaking of the death of Ochus King of Persia telleth, that he was poisoned by Bagoas his Chiliarch in the time of the resone of Philip. Alexanders father. This Chiliarch then I take to be the Same, that the Generall of an armie is with vs. And I can hardly be persivaded, that Antipager wouldbeaueath a leffe place to his sonne Caffander.

14 A Merarchy The command of a part or halfe; for a Phalangarchy conlifteth of two Merarchies. So that a Merarchy is halfe the Phalangarchy, and conteineth, 2018 men. This part is also called Telos, of which I have spoken in my notes to the seventh c Thucyd.hb.I. Chapter, And yet the word Telos is not alone veed inbodies of foote. For c Thucydides (beaking of the fight by fea betwixt the Corcyr wans, and Corinthians, telleth, that the Corcyreans caue the right wing to ten Athenian Stippes, and having of their owne a 100 and 10 shippes, divided them into three Tele, every of which was commanded by one of their Generalls: fo that Telos there signifieth not a cert aine number of ships, but a part of their flest divided into 2: 6 the Comanders of the Corcyreans are call'd Strategoi.

A Phalangarchie The command of a fingle Phalange. Of this kinde were d Arrandibas the & Phalanges in Alexanders armie (as Itake it) which were led by Canos, by Perdiccas, by Craterus, by Amyntas, by Ptolomy, by Meleager, and other, as Arrian hath ; Before Philip and Alexander gathered those forces together , wherewith Perfia was fundued, the armies were of (maller number among st the Gracians. Neither was it in many Cities might to raife 4096 men; which go to the Phalangarchy of Ælian: If any dia they might nell call it an armie (Strategia, and the Commander Strategos) and the name of Strategos, or Generall was viually given to him, that commanded in chiefe over an armie (though [mall) fent out by any Citie to warre. So then, as the Generall was called Strategos, a Phalangarchy might also becalled Strategia. I have before noted, that the lections of the Phalinge are limited, and laid out by the Phalangarchies. And where there are 3 lections in a Phalange, the middle lection is in the midft of the 4 Phalangarchies , 2 Phalangarchies lying on the one fide , and 2 on the other. The 2 other fections are one between the 2 Phalangarchiesof the right wing the other between the two Phalangarchies of the left wing, for betwist enery Phalangarchie was a space or section.

16 A Diphalangarchie] The command of two Phalangarchies; this was one of the wings. Alian grueth it no Commander ordinary, neither doe I remember, that I

have read Diphalangerchs of Diphalangurchia es Phalangarche of Phalangarchia, Tetrarchs of Cornerchia. Termis there one, alwaies that commanded the minge, oppointed to that place estimardianily, So + Philip, at the barnie of Cherone of where he Dood, Sicol. overthrew the power of the Athentans, and Thebans, and their Alles) tooks the one wing to bimfole, and gave the command of the other to Alexander his some being then but joung. And Alexander at Granicus commanded lamfeife the right wing, and ap. 5 Arrandian. butyoung. Atta enterancer of Granicus common oca man encouraries wing, and appointed Parmentoto the tops. So in the buttailes against Darius at 180 s in Cilicia, e Arisantha.

17 Meros] Meros is a parthy dinifien, comming of the curbe, metro to dinide. A trum list, And as before, Amerarchie, was halfe a Phalangarchie, so here Metos is halfe the fourfold Phalange. Each then fignifieth halfe, but to diffinguifb them, the one is called a Me. rarchie, that is a Commande of halfe, the other Meros, that is halfe : A diffinition fulficient to know the one from the other. Two of these Meros make the Phalange contesning 16384 men. Andthese are the bod esmilitarie, which Elian in this Chapter describeth, and which werein of among si the Macedonians. The other Gracians ofed other boates in the warnies. The Lacedemonians divided their whole city, into fixe across account hodies, herfo and feets, were one of which was called More, or Moins. Their Cenerall oss.A. was one of their Kings, for they had alwaies two. Enery Moira, had a Polemarch (not much differing from our Cor wells) foure Lochagie, eight Pentecofteres, and fixteene Enemocarens. What the number of the Moita was, is uncertaine, byreafon of the fecrecie the Lacedemonians vied in their government, as f Thucydides faith. Plutarch f Thucyd lib. Freporteth, that Ephorus the lifterian, giveth 500 mente the Moira, Califthenes 700. 39 Polyoius and others 900. Diodorus Siculus, agreeth with Ephorus, and elloweth Pelorida, but 500 to the Moira. And Xenophon numbreth the Moira of the Lacedemo - h Dood Sicul. nians, which Iphicrates, defeated hard by Corinth, to have been about 600 men. & See i Xenophil. the scholiastes, of Thucydides, for the exact number of these bodies. The 1 Atheni- Grac. lib. 4. ans had their Chiliarchs, Pentecofiarchs, Taxiarchs, and Lochagie, as I have faid \$18.0. before. And with them were the Lochagi laft, where with the Lacedemonians they Thuryd. hb. 5. were next the Polemarchs, but the number of the Lochos was not alike, as I have like- 392 wife flowed before. Cyrus in "Xenophon hath thefe orders militarie, Myriarchs Comin henera, manders of ten shouland, Chiliarchs of a thouland, Taxiarchs of a rundred , Lochagi s to of twentle foure, Decariarches, called sometime Dodecadarche of 12, Pempedarche n. Xenocian of five, which are alfoculted Hoxadarchs. " Vibicius differeth not much from Elian, 1. 4. A. face onely in the number of the file, and the Officers of the file. For where Elian bath a bymologici fixteenete a file, Vrbicius habbat ten : and Vrbicius alloweth but two Commanders 50,000, to the file, the File-lender, and the Bringer-vp Ælian foure; the foure Enomotarchs. For the number of the Officere, in the Phalange they agree. And yet the names are not all one. Elian beginneth wish a Dilochite commanding two files, thirtiet wo men, Vrbicius milhthe Lochagos, who he kewife commandeth two files of his, and fine men more, namely 25 men. The next in Alian is a Tetrarch ouer fixtie-fouremen, in Vrbicius 4 Pentecontarch ouer fiftie men. Vibicius bath next a Taxiarch, a Syntagmatarch, a Penteconarci, a Chiliarch, a Merarch, a Phalangarch: And fo bath Elian. The next in Æ ian is a Dipitalangarch, Commander of 8192 men; Vibicius termeth him a Myriarch that is the Leader of ten thou (and men. The Tetraphalangarchy is last in both. But Vibicius afigneth no more, then 16 thou fand to bis Phalange, Æhan 16 thousend 384. Iulius Pollar thus dinideth bis bodids, & Myriarchie, & Chiliarchie, & Taxiarchie, a Ficcatontarchie, and a Lochagie. What a proportion Leo makes, is to be seene in the fourth Chapter of his Tacticks. Because, he bathamixture of the Roman

and Greeke Orders, I remit the Reader to the booke.

Dilechites 512. Tetrarchs 256. 128. Taxiarchs So then Elian hath in his Phalange Syntagmatarchs of armed (befides the two Diphalan - Pentecofiarchs Chiliarchs garchs) 1020. Officers. Merarchs Phalangarchs

Thane fet downe the figures of all the bodies described by Elian as farre, as the Phalangarchy. The rest would have beene troublesome to insert as requiring more paper, then would fland with any reasonable proportion; neither are they greatly need full. For two Phalangarchies toyned in an even front , and in a convenient diftance , will figure out a Diphalange; foure in an euen front with a like distance will make the fourefold Phalange. So that thereby the forme of it will appeare.

> The precedence, and dignitie of place in the offices of the Phalange.

> > CHAR. X.

"He best of the Phalange Commanders is placed on the right wing, the second on the left wing, the third in valour in the right hand next thefecond Philanee toward the middle fection. The fourth on the left hand next the first Phalange toward the middle fection likewise. So the first and fourth Phalange haue Commanders of the first, and fourth worth: The second and third Phalance have Commanders of the second and third worth. Now wee will shew by demonstration, that the first, and fourth worth, and valor, are equal to the second, and third; So that the Commanders in each wing are of valor alike.

3 The Leaders also of the severall Merarchies are thus disposed. The first hath his place in the head of the first Phalinge on the left hand. The second on the right hand of the second Phalange : The third on the left hand of the third Phalange : The fourth on the right hand of the fourth Phalange. Also the Leaders of files in every I etrarchy are fo placed, that the Leader of the first file hath preheminence in valor and place; the Leader of the fourth file standeth next him: Then the Leader of the third file, and the Leader of the second file laft. For then are Dilechies of equall valor when the first Delechie hath the first, and fourth Leaders, the second Dilochy the second, and the third Leaders in valor and reputation. For it appeareth in the Mathematicks, that, when there are Analogies, or answerable proportions of foure megnitudes propounded, that which arifeth of the first, and fourth, will countervaile that, which arifeth of the second, and third magnitude. And because there are soure Tetrarchies in every Syntagma, wee may give the Leaders of the Tetrarchies place according to the same proportion, as to place the Tetrarch of the first Letrarchy on the right hand, giving him the first place of worth; on his left hand the Tetrarch of the fourth Tetrarch; in the fourth place of worth. Then agains next him the Terrarch of the third Tetrarchy in the third place of worth, and on his left hand the Tetrarch of the fecond Tetrarchy in the fecond place of worth. In tike manner are the greater commands also to be proportioned.

Notes.

He former Chapter was of the Officers and of the bodies of the Phalange; this is of the place of enery one, according to his worth. And first wee are to note, that all the 2 Commanders were placed in front of those, that they commanded; to the a Xenoph. end they might direct, and lead them as occasion should require. For b Xeno Cyrop.lib. 3. phon (aith of Cyrus army, the Decadarchs, or file Leaders, had care of the b Xmoph. files, the Lochagie of he Decadarchs, the Taxiarches of the Lochagie, the Chillarchs Cyro . lib. 8. of the Taxiarchs, the Myriarchs of the Chiliarchs : So in the Phalange of Elian the 203. A. file Leader had the command of his file, the Dilochites of the file Leaders, the Tetrarchs of the Dilochites, the Taxiarchs of the Tetrarchs, and fo the rest, till you come to the Generall, who cared for all, directed all, and under whom all the Commanders were. I be G nerall bath beene placed sometimes in the right winge, sometimes in the middest of the Phalange. Vegetius faith, that the Generall of the Armie is accustomed & Vegetius to be in the right winge betwixt the horse, and the foote. Hee addeth, this is the lib. 3. cap. 18. place, which gouerneth the whole battaile, from whence the falying out is most direct, and free. Therefore he standeth betwixt both, that hee might both gouerne horse, and soote with counsell, and with authority exhort them to fight. d Cyrus in his battaile against Crefus, took his place in the right wing, betwixt the right d Xenoph. hand point of the battaile, and of the horse, that were ranged in the wing; Alexander Cyrop. lib. 7. the great, in his battailes tooke the same place; "Timoleon in his fight against the Car- e Plaurch in thaginians placed himselfe in the middest of the battaile. f Diodorus Siculus, faith, Timol. that, it is the manner of the Scythians, that the King [bould] and in the middelf of the lib. 10, 73.

Phalange. The like doth S Arrian affirme of the Perlians, and faith, that Darius bad & Arrian affirme of the Perlians, that place. h Leo also giveth the middlest of the battaile to the Generalt. And there h Leo cop. 4. placeth the battaile ouer which he would have him to command.

I The best of the Phalangarchs | This ordering of the Phalangarchs the best & cap.12.666. on the right hand wing, the (econd on the left, the third next him in the left wing on his right hand toward the middle fection: The fourth in the right wing on the left hand of the first toward the middle section then 2 3 4 commeth out of a Geometrical proportion, which proportion giveth law to the ordering of the rest of the Commanders. The rule is thu: 4. Magnitudes which equally exceede the one the other being compared together that which arifeth of the first, and fourth, is equall to that, which arifeth of the second, and third. As 2. 8. 14. 20. each exceedeth the other, 6. The addition of 2. to 20. begetteth an equall number to 8, and 14. added together. So is it in all other numbers, that have the same equalitie of excesse one above an other. Out of this rule of proportion, Elian deriveth the giving equalitie of strength in the Leaders to every bodie in the Phalange. For Leaders and Commanders are (or ought at least to bee) chosen by worth, and valour : and the preferments of the feild have beene held the due reward of vertue. Say then the Phalangarchs are preferred to their places according to their worth, and that the first Phalangarch is most worthy, the second next him, the third next, the fourth least deserving of the fource. If you should place them, as their worth is in a rancke succe sucly one after another, the best before the first Phalangarchie in the right wing, the fecond before the next Phalangarchie in the same wing, and leave the other two Phalangarch's to command the left wing, the disproportion would b: great; the third and fourth not being able to match the worth of the first, and second.

But if you place the best Phalangarch before the sist Phalangarchie on the right wing, the steona before the second Phalangarchie of the left wing, the third Phalangarch next him before the stirt Phalangarchie on the left wing, toward the middle Section; the fourth of fore the feurth Phalangarchie of the right wing toward the same Section, the valours of the Commanders, will be equall in both wingers. For as in the number 1.2.3.4, one and 4 make 3, as many, as is made by invining 2 and 3 together 3,0 the worth of the fourth Phalangarch inqued to the worth of the first will arise at high in true valuation, as the worths of the second and third signed together. In where the Phalangarchie on the leftcorner of the left wing is called the second, and the next Phalangarchie shading in the same wing the third; it is to be wantersself and the wine shading in the same wing the third; it is to be wantersself and the wine shading in the same wing the third; it is to be wantersself and the sit is second phalangarchie in dignitic standard in the same wing the state of the shade Phalangarch. Their place of the whole Phalangarch of Lilan.

 $\frac{1}{1}$ $f = \frac{3}{6} g \frac{4}{d} e \frac{1}{1}$

For the understanding a hereof, you are to note, that

- a fignifieth the first Phalangarchie.
- b the fecond Phalangarchie.
- c the third Phalangarchie.
 d the fourth Phalangarchie.
- e the Section of the right winge.
- the Section of the right winge,
- e the middle Section.
- g the miable section.

 1 the place of the first Phalangarch.
- the place of the second Phalangarch.
- 3 the place of the third Phalangarch.
- 4 the place of the fourth Phalangarch.

2 The Leaders of the Merarchies] As the Phalangarchs so are all the other Commanders of the severall bodies placed by source, and the same observation to be had, of the dignities of the place, that was in the Phalangarchs: and these 4 Metarchies (for Elian speaketh of no more than 4.) muss signal thus.

P	M	M	P	P	M	M	P
2	2	3	3	4	4	I	1

P, flandeth for Phalangarchs.
M, for Merarchs.

Robortellus confesseth he findeth these Merarchs so placed in a written booke, and it is the true placing. The figure, he settleth downe out of his owne wit sa he termeth it) carry with them no slavour of Elians proportion. Patricius likewise secuenth to have misseken them no settleth of the settleth settlet

Elian, speaketh of bestowing 4 Merarchs onely, so though the rest were to be throwne any from the Phalange. Robottellus seeking to bestow all 8, bestoweth them indeed, but not according to Etians proportion, which nativital anding he would seeme to follow. His figure is this.

The proportion is bis, 46 I faid, and not Elians. For Elian placed the first Merarch in the right wing; he placeth him in the left; Elian the second in the second Phalangarchic, be in the fourth; Elian, the third in the left wing, he in the right; Elian, the fourth in the fourth Phalangarchic, be in the first. The rest are so in unbled tagester, as to ugh any thing else had be no sought for, rather than proportion. I take not upon mee to over-rule any doubt; but if among it the rest tenterpose mine opinion, I hope, I shall not incurre inst blame. Thus then: seeing Elians meaning is by evensses and warth of number of both wings to finde out the worth of the Commanders of both, if I so distribute them, that the number of the one side shall counterballance the number of the other, I cannot much strap from Elians meaning. The figure following will doe it.

In this figure I have observed precisely the place, that Elian gave to the 4 Merarchs. The first standeth on the left hand of the first Phalangarch; the second on the right hand of the Second Phalangarch; the third on the left hand of the third Phalangarch; the 4th on the right hand of the 4th Phalangarch. The rest I have added, and divided according the placing of the first : So that the number that ariseth of the addition of both wings, is alike, and the proportion held. In all the reft of the bodies, where there is a Command ouer 4, the keeping of the proportion hath no difficulty. So every Phalangarch commandeth ouer 4 Chiliarchs; euery Merarch ouer 4 Pentecofiarchs; euery Chiliarch ouer 4 Syntagmatarchs; enery Pentecosiarch ouer 4 Taxiarchs; enery Syntagmatarch ouer 4 Tetrarchs; euery Taxiarch ouer 4 Dilochites; euery Tretarch ouer 4 files; In all which the Commander, which bath the right, bath the first place, he that hath the point of the left hand, the second place; he that standeth on the right hand next to him. the third place; the last place is his, who standeth next to the Commander of the right point on the left hand. And for the place of the Phalangarchs, and of 4 of the Merarchs, and the file-leaders, and of the Tetrarchs, they are laid out by Elian. The reft appeare by these, and are to be squared by the same rule of proportion, as Elian admonified.

The Rearc

The distances to be observed betweene Souldier and Souldier in opening and shatting the Phalange.

CHAP. XI.

TE are now to speake of distances both in length, and depth betwixt Souldier, and Souldier, as they stand ordered in Battaile. The distances vary in three forts. For first they are placed in thinner distance for some special causes. And a Souldier fo placed taketh vp 1 4 cubits. But in 2 Denfation or clofing he taketh vp 2 cubits. 3 In Constipation or shutting, one cubit.

Denfation then, or closing is, when we draw wide distances close together, and by fide-men, and followers (that is both in length and depth) gather vp the bodie of the Phalange: fo notwithstanding that the fouldier yet hath-libertie to moue,

and turne about. Constipation, or shutting is when the Phalange by side-men gathereth it selfe vet closer together, then in Densation; so that by reason of the nearenesse there is left no Declination, or turning of faces either to the right, or left hand.

The vic of Closing is, when the Generall leadeth the Phalange against the enemy. Of Shutting when he would have it fland fast (and as it were locked up, and ferred)

to receive the charge of the enemy. Seeing then there are 1024 File-leaders in the front of the Phalange, it is plaine that + in their ordinary array they take vp in length 4096 Cubits 5 (that is ten furlongs, and ninetie fix cubits) In Clofing five furlongs, and forty eight cubits. In Shutting two furlongs, a halfe, and fower and twenty cubits.

Notes.

A Fier Souldiers are armed, and dissributed into bodies military, the next care is to be had of their Mouing. For as a man, let him be never so well proportioned, and firong, if he pace disorderly, and either fet too great strides, or reele here, and there, or so minee, and tread out his fleps, as if his leggs were bound together, groweth hereby deformed, and not onely lojeth his comelinesse, but his activitie withall, and possibility to performe any thing by strength: So is it of an Armie, that hatheither too great distances, or *Cate de bel, is thronged op, or pefired too close together. " Too much thronging bindeth, as it were, the fouldiers hands, and taketh away the vie of his weapons, as on the other fide falling b Planarch one loofe from another, and standing or moving too farrea funder, maketh the Battaile weake, and desiointed, and Subject to the enemies entry and easie to be broken. The meane betweet both was brought in by King Philip, King of Macedonia, who first constituted, and raised the Macedonian Phalange, and invented the distances of opening and closing e Diodor Se: the Same; imitating the ferring of Targets (called Synaspismos) practifed by the old Heroes at Troy. Out of his discipline fprung the distances mentioned here by Elian: which are of three forts; The first are large distances of

d Polyb.lib i a Foure Cubits Which amount to fix foote. For a Cubit conteineth a foote and a ha'fe. This a distance was vied in marching, or elfe in solemne pompes and shewes. And the fouldier having a pike of " 14 Cubits or 21 long, whereof one halfe lay forward on his fooulder, and the other halfe backward, it was requisite he should have area-Sonable large distance, both in file and ranke, to the end, that in turning this way or that

The first distance ordnary of facts in file asmuth in rank

The second distance called E Foote in file asmuch in

Leo cap 17. \$ 61. CPolyb.lib 17

lib. 16. 511.

The third distance added shuths Ξ (orte 8) چ. called Closing distance th. second a 5 J. Sale ordinary 6 Jake ranti i first distance o 13 . E ELGE - NE - NE stoke

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way, or that way, or mouing out of his place (for no man in his marche can always held his ranke) he offended not his next neighbours therewith. This diffance our exercise at this day calleth open order. The next distance is ef

Two Cubits] Or three foote. The name of it in Greeke is Pycnofis, that is thickning. In Leo it is called Sphinxis, (knitting together) in our moderne exercise Order. And it is, when from the distance of 6 foote, we draw our Phalange both by file, and ranke, so close, that the souldiers stand but 2 foote one from in other every way. This distance is vsed when the Army approcheth neare to the enemy (and onely commeth not to charge) that it may be ready to fout, and locke it felfe for the charge, which is performed in the last distance of

One Cubit A foote and a halfe. This is called Synaspismos, toyning Target to Target. For, as I before shewed, the pikemen of the Macedonians vsed also Targets with their pikes, and in charging the enemy closed fo neare in front , that their owne Targets touched one another. This kind of fights the Egiptians veed in Xenophon (which & Xenoph. be calleth locking together of Targets) and by meanes therof had the advantage against Cyrophib.7. the Persians. The Parthian horse likewise comming to charge Crassus with their stanes: it is called by After they perceived the depth of the locking of Targets, and the fetlednesse, Thucydides, and flediatines of the Roman Philange, they retired, and durft not come to hands Sveilin, Thursday, Single Street, Alandard Commercial Commerci with them. And Diodorus Siculus writes that Alexander besteging the City of Halicarnassus, there was in the City, and in service of Darius one Ephialtes an Athe-h Appian in mian, a min of great valour, and strength of body; He by the permission of Memnon A. 164. D.C. Generall of Darius Armie, determined to make a fally. And taking to him 2000 | Diod. Sicul, mercenarie fouldiers, all chosen men, and giving brands flaming with fire to one lib. 17. 575. halfe, and referuing the reft for fight, he opened the gates, and fell out, throwing fire vpon the engines of battery, which foone caught a mighty flome; And marshalling the rest into a thicke and deepe Phalance, himselfe led on, and was the first that fell on the Macedonians coming to aide, and to quench the fire. Alexander aduertifed hereof speeded to the medley; & ordered first the Macedonians in front, after them other choice men, for seconds; and in the third place men of extraordinarie account for their prowesse, himselfeleading them on sustained the enemy, which seemed varefishible, and sent others to slake, and put out the fire, and to preserue the Engines. The fight was hot, and albeit the Macedonians found meanes to quench the fire, yet had Ephialtes the better in the fight; who both himselfe killed many with his owne hands, and the towers from the walls surnifined with many Catapeits annoyed greenoufly the Macedonians. In fo much that some falling in the place, other-some for saking their ground by reason of the number of Engine Darts that fell thicke amongst them, Alexander himselfe was reduced to extremitie. Here the old fouldiers of the Macedonians, although otherwise freed from such service in regard of their age, having of a long time followed the warres with King Philip, and gained many a battaile, were by this occasion tolled out to succour; and as they excelled the yonger fort in greatnes of spirit, and military experience, so meeting with the run-a-waies, they bitterly reusled, and taunted them for their cowardice; Then * ferring themselves close, * Synaspilantes and ioyning their Targets together, they repressed, and held the enemy short, who now feemed to have the victory in his hands. Finally killing Ephialtes, and many other, they droue the rest into the City. A memorable service of the vse of Targets, and of the Synaspisme of the Micedonians, which was not wfed, but when ther either gaue woon, or received the charge of the enemy. And the Targets fo knit together ferued for a wall (as it were) to the whole Phalange, and by them the fouldier

2 Polyb.bb

é Saidas in

e Suidasibid.

& Leosap.

27.589.

Pietiro.

was defended from the missine weapon of the enemie, and his body coursed even from the petreing of the fwerd. Synalpifmos then, or furting, is that diffence in the Phalance. which bringeth the fonldiers Target to touch one an other and is limited by Alian to a cubite (that is a foote and a halfe) betwirt fide-men, and fide-men in the front. What diffence the followers (bould have, Elian fetteth not here do ine in plaine words ; but implies, that they foodld hold their 2 foote fiell in that he faith the Pialange in confinacion gathereth the fide-m nelofer , then in denfation , one freaketh nothing of followers. . Polybins teachethit more planely; who gaves them three foote diffence from the Leader, both accor-17. 764. A. ding to the Maccdonian and Roman discipline, and that for the wie of their armes with b Alian c. 14. mhom Elian alfo agreeth afterward. In what manner the Targetiers made their clofings, and bow their Targets were cast from the backe, where they hung, to the left shoul-

der, I have before noted in the second Chapter, and the refere thinke it needlesse here torepeace. Now for the ground that a Phalange taketh up in each of thefe orders, Elian floweth it in the words following allowing the Phalange.

4 In ordinary aray foure thousand cubits The Phalange in open order, faith c Sec Polyb. Elian, takes up 4096 cubits of ground. This is to be under flood in front, er length; fer 16. 12.664 C. in depthit hath no more, then 64 cubits; every fouldier (which are in number, 16 in file) Leoca;. 17. poffcfing A cubites of ground in his open order; A cubit is the part of the arme, which reacheth from the elbow to the middle fingers end, and is as much, as a foote and a halfe.

Infront then, there being 1024 File-leaders, we most alest to each of them four ecubits, of ground; to the thousand 4000 cubits, and to the odde twemie foure 96 cubits. For foure times twentie foure makes 66. which together comes to 4096 cubits, and to fix thousand

oue hundred fortie foure frote.

Ten furlongs and ninty fix cubits] Where this pace is fquared out by tenne furlangs, wee must understand, that a furlang conteines a foure hundred cubits, and _ 4096 being divided by 400 the quotient is 10: - that is ten furlongs and 96 cubits, as Elian faith. Which measure of ground the Phalange of Armed taketh in open Order. Of thefe furlowes . Seven and a halfego to a mile, by which account the front of the Phalange of armed in open order taketh up one mile, a quarter, and 2,46 cubits, meafuring it by feete it amounts to 6130. In closing (which is named Order, and is the next distance) because the souldier is allowed but 2 cubiss, that is halfe so much, as in open Order, the dimension will not exceede fine furlongs, 48 cubits; that is 2048 cubits in all, which amounts to halfe a mile, balfe a quarter, and 172 cubits, in feete, 2072. In flowsting 2 furlones and a halfe, and 24 cubits; that is a quarter of a mile and 274. cubits.

The arming of the Phalange,

CHAP. XII.

He Phalange is to be armed with Target and Pyke. The best Taget is the Macedenies tweet made a of braffe, and a fomewhat hollow, and having 3 eight handfulls in Diemeter. The Pyke ought to be + no (horter then 8 cubits; and the longest no longer, then a man may well vie and wield in handling.

.. Notes.

IN the second Chapter of this booke to se handled the diner sitie of armes, weed in the 1 Phalange. This fetteth forth the choice, that is to be made for matter and fashion, and

what fife is bift of pike and target. For the other armer of the armed (whereof I fake, in my notes to the second Chapter) is (no question) to be fitsed to the body of him, that shall b'are them. He giveth then to the armed a turget, and a pike, the target the Macedonian target the matter whereof was first of braffe. I have shewed that the Macedonian target was of brasse, and that they were called by reason of the bearing such targets Chalcalpides Brazen-targets. I am induced to thinke, that, as Philip borowed many other things in warre from the Lacedomonians, so he borowed this kinde of target from them. For they by the ordinance of Lycurgus, were mionned to have no other matter in their target shen braffe. * Xenophon gines a reason why they were made of braffe. For Ly- 2 Xenophon carrens was of opinion, faith be, that fuch a Target was most fit for warre, because de rep. Laced. it is soone brought to shine, and it gathereth not rust easily, two great commodities in armes. For a best the chiefest considerations befurenesse, and strength, yet is not the beauty to be neglected, which hining doth principally fet out. Befides that it dazeleth b Plurach in beauty to be neglect to work uniting among among interparty of the enemie, and firikes an amazednesse into his minde. 'Xenophon much ad. Crific. Xenoph in mireth Agefilaus, that he fo armed, and clothed his armie, that they feemed to be Agefilao. nothing, but braffe, and nothing, but scarlet. The braffe he feaketh of, were the bra- 659. B. zen targets of his souldiers, which couered the most part of the body, and were chiefely the obtect of the eye, without that that any other weapon was at that time of Braffe. Therefore, as I (aid, I am of opinion that the brazen T arget came from the Spattans to the Macedonians. The Brazen-targets Ælian would have

Somewhathollow If they (bould beare streight out without any bowing, besides that they were uneasie, they would lie kicking out from the body, and not cover it much. The arme or shoulder, that is inserted into the Target, is bowing. And the target somewhat bowing fits it for ease, and slopeth more toward the body to couer it, and is more pliable to be carried. But the hollownesse ought not to be much. He would have it also

3 Eight hand-fulls in Diameter | The Diameter ina circle is a right line, which is drawne from one fide of the circumference to the other passing thorough the Center, or middle point of the circle, dividing the circle in two equall parts: Here the Diameter of the target is taken for the exact bredth of the target, which ought to be, according to she Macedonian manner, eight handfulls, or two foote, that is 22 fingers. For four bandfulls go to a foote, and foure fingers to a handfull. d Leo gines it three Spithams, d Leo cap. 6. that is 36 fingers, if he meane the great 'Spithame, which is of twelve fingers. And \$ 38. the less comprehending a handfull be cannot meane. For so should the bredth of the target lib. 2. ear, beno more, but three handfulls, a bredth insufficient to coner any mans body. Whether of 3 21. collecting them is the bitter will appeare in triall. The Diameter that fernes to concr the bodie from the upper part of the necke to the middle part of the thigh, is enough in these round targets. That, which is more, is rather troublesome, then fit for wee. And I am of Iphicrates indoement in targets, that performing the conering of the bodie, they should be as light, as may bee, least the shoulder be over-laden with wonece sarie weight. In which regard I preferre the Target of Elian, before that of Leo; Elians reaching up to the beight of the necke from the middle of the thigh; Leos carying a handfull more inbredsh, which in the circumference groweth to a good proportion of weight and greatneffe.

4 No shorter than 8 Cubits | That is 12 foote. Short pikes against long have a great disadvantage. With the long pike a man is able to strike, and kill his enemy, before himselfe can be touched, or come in danger of a shorter, the pike keeping the enemy out for Patricins Pa. farre, as the length is. The experience of the battaile of Sorano, sheweth it; where rel. particum: Vitellozzo Vitelli discomfited the Almaines onely with the advantage of pikes an arme lib. g.caps. longer than theirs. Against long pikes, this policie was weathy Cleonymus the Lace- & Polyen.lib. demonian King as & Polienus tells. Cleanmus besieging Adessa, and having over- 5 2.

throwne the wall of the City, the pikemen of the City salied out, whose pikes were each 16 cubits in length. Cleanymus closed his Phalange in depth, and commanded the file-leaders to lay away their pikes; and when the pikemen of the enemy came to charge, to seaze vpon their pikes with both hands, and hold them falt, and the followers to passe thorough by the file-leaders sides, and maintaine the fight. The file leaders laid hold on the pikes, and the enemy strone to recouer them out of their hands. In the meane time, the followers paffing thorough the ranke of file leaders to the front, flew the enemies pikemen, and got the victorie. This was Cleonymus denice against long pikes, which notwithstanding deregates nothing from the length of pikes more, than from (bortnes. For the Same policie might have prevailed as well against short pikes, as long, each, as one as the enemies have leized upon them, growing to be of no vie. But that the longer pike is to be preferred before the (borter, I baue shewed before by reason: and the reformation of armes made by Iphicrates amongst the Athenians, and by Philopomen amongst the Achaians, will be warrant enough fo to hold. In the length notwithstanding ought, to be a reasonable consideration, that it exceede not the measure of his strength, that shall beare the pike.

The worth that the File-leaders, and next followers flould be of

CHAP. XIII.

THE File-leaders (as the Commanders of files of the Phalange) are to be the choice and flower of the Army, and to excell the reft as well in flattre, as in experience and martiall skill. For this Ranke knitteth and bindeth in the Phalange, and of all other yeeldeth greatest vie. For, as a lword taking to the edge as a weight, and sway, the swelling you to wards the backe exhibiteth thereby more violence in piercing, so in a Phalange the Ranke of File-leaders is the edge it selfe, and the multitude of after-commens is the swelling, and sway, and increase of weight.

Consideration must be had likewise of those that follow in the second Ranke, For their Pikes reach in youtly over the front, and being next in place they are alwaies ready for vie. And the File-leader falling, or being wounded, the next follower stepping to the front in his place, holdeth together, and preserve the teenor of that Ranke vabroken.

Furthermore, we are to order the third and the rest of the Rankes according to reason, and as the valour of our souldiers shall require.

This Chapter Soweth bow the Souldiers are to be ordered in enery File: whereof, because I have before sooken sufficiently immy Notes to the fifth Chapter; and the words of this Chapter earry no difficultie, or observation with them, I will sorbeare to treat any surface.

CHAP. XIIII.

I The Macedonian Phalange, hath beene thought to be vnrelistible] The french of the Macedonian Phalange appeareth noway better, than by the conquests it buth made. King Philip was the inventer of it; and by that invention raised the king-dame of Macedonia from the poorest, to the powerfulest, and greatest kingdame of Europe; and (that I may vietbe words of Diodorus Siculus.) sinding the Crowne, to Diodorus at his comming to it, in bondage to the Illyrians made it asserted Lady of many great Nations, and Cities; and purchased to himselfe, to be declared General of

Phalange.

85

throwne the wall of the City, the pikemen of the City falled our, whose rib-

HE C napler increain now ine somiaiers are to be ordered in every tile: Whereof. because I have before spoken sufficiently in my Notes to the fifth Chapter; and the words of this Chapter carry no aifficultie or obscuritie with them. I will forbeare to treat any further.

CHAP. XIIII.

Of the strength of the Macedonian Phalange, and length of the Souldiers Pikes.

of Elian.

CHAP. XIIII.

→HE Macedonian Phalange hath of enemies beene thought vnreliftible, by reason of 2 the manner of embattailing. For the Souidier with his Armes standeth in close order, or shutting, when he is ready for fight, 3 occupying two Cubits of ground. And the length of his Pike is lixteene Cubits according to the first institution, but in truth it ought to be foureteene Cubits; whereof the 4 Dace betwixt the hands in charging taketh vp two Cabits, the other twelve lye out from the front of the Battaile. Those in the second Ranke, that stand next to the Leaders (looling foure Cubits in the Phalange) have their Pikes reaching over the first Ranke ten Cubits. Those of the third Ranke eight Cubits, of the fourth Ranke fix cubits, of the fift 4 cubits, of the fixt 2 Cubits. 5 The Pikes of the other behind cannot attaine to the first Ranke. And seeing fine or its pikes are charged ouer the first Ranke, they present a fearefull fight to the enemy, and double the tirength of the fouldier standing fortified, as it were, with fine, or fix Pikes, and seconded with a maine force at his backe, as the figure sheweth. Moreover they that are placed after the fixt Ranke, albeit they puth not with their pikes, yet thrufling on with the weight of their bodies, r'enforce the strength, and power of the Phalange, and leave no hope for the Fite-leaders to flie, or shift away. Some would hane the hinder pikes longer, then the formost, that they of the third, and fourth Rankes might beare out the heads of their pikes equally with the first.

6 The Superordinary Lieutenant of euery Syntagma must be a man of vnderstanding, overfeeing the fouldiers of his command, that they file, and ranke; and if ferfeare, or other occasion, any forsake their ground, he is to compell them againe to their places; and in Closing to put them (when neede requireth) as neare vp together, as they thould stand. For it is a great strength, and affurance to the Pinlange, to have some principall Commander not onely in front, but also in the Reare of the Battaile, for the causes before mentioned.

Notes.

THE strength of the Macedonian Phalange, which consisted principally in the protention, and charging of pikes, and knitting together of Targets, is here, Appear in Set downe. The whole Chapter Seemeth to have beene taken out of Polybius, who hand- Syracis gr.E. leth the same argument, and almost with the same words, but that Elian, and he differ 763 E. about the number of Cubits, which the Pikes take up reaching oner the front of the Phalange.

1 The Macedonian Phalange, hach beene thought to be vnrefissible] The firenath of the Macedonian Phalange appeareth noway bester, than by the conquests it bathmide. King Philip was the inventer of it; and by that invention rassed the kinga.me of Macedonia from the poorest, to the powerfullest, and greatest kingdome of Enod. Sical. Europe; and (that I may refether words of Diodorus Siculus.) finding the Crowne, 18.16,510. at his comming to it, in bondage to the Illyrians made it afterward Lady of many great Nations, and Cities; and purchased to himselfe, to be declared Generall of

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lib 6 207.

763.D.

Flamin.

760 C.

Lavy dec. e.

1.b.4 73.

armes

Greece. And first ouerthrowing the Illyrians, Paconians, Thracians, and Scribians, afterward tet voon the kingdome of Persia to breake it, after he had enfranchised the Gracian Cities of Afia. And albeit death intercepted him, yet he left fuch forces to his sonne Aleander, that he needed no other Allies to overthrow the Soued Diodor Sic raignety of Persia. After his death d Alexander tooke his kingdome, and Armie, and with it encountring, and vanguishing Davius in two great Battailes, runne thorough Plutatch, in Alia like a flash of lightning renting a pieces all, that relisted, or flood in his way, and Alexand: o. Qu Cure de laid the foundation of that kingdome, which (albeit afterward divided) continued long reb. geft. Alex in his Successors. Neither was the experience of their invinciblenesse against the barbarous people onely, but as much against the Gracians, who till Philips time were esteemed the chiefe masters of Armes in Europe. This is cleare by the victories, the Macedonians obtained against the renowned Cities of Greece both iountly and severally, e Philip overe Diod. Sicul. threw the Phoceans, albeit the Lacedemonians, and Athenians toyned with them. The (ame f Philip at Cheron and defeated the power of the Thebans, and Athenians t Dio . Sicul. ioned together. & Alexander tooke and facked the Citie of Thebes, that about that lib 16 555 Plutarch, in time was accounted the mightiest Citie of Greece. h His Lieutenant Antipater foyled Pelopida. the Lacedemonians in a fet battaile, and flew their King Agis. Antigonus Tutor of Iuftin bb.3. g Diod Sicul. King Philip the Jonne of Demetrius, broke an Armie of the Lacedemonians and Peh Qu. Ca was loponefians at Selafia, and chafed out of Greece Cleomenes the last brave King of Sparta. Briefely they were not beaten in the field by any Wation, but onely by the Roi Polyb. lib a mans. And yet the indgement of & Polybius, doth in this also proue it selfe good. k Polyblib For where the Romans had thefe victories against the Macedonians, he assigneth this to be the cause, that the Phalange at the time of the fight had not the proper place. nor meanes to vie it owne power in the encounter; folong as the Phalange hath ground enough, and can meete the enemy with a right front, he holdeth it not possible to be foyled, being divided, and in places vneven, he is of opinion, and experience bath taught, it may eafily be put in a route. 1 Plutarch compareth it for ftrength (fo long as it is one bodie, and maintaineth the Synafti (me iointiv) to an invincible beaft; being diffeuered, he faith, it loofeth the force in the whole, and in euery man particular, both in regard of the manner of arming, and also because the violence of it consists rather in knitting of all parts together, than in particular of any mans valour. Three battailes (to pratermit diners skirm shes,) I finde the Romans had with , and therein foyled the Macedonians; One against King Philip, the Joune of Demetrius; an other against Antiochus; the third against Perfeus the forme of king Philip. " For Ipaffe over those, wherein they were beaten by Pyrrhus, and had the worft. " Philip breaking his Phalange, and not wfing the whole n Polyblibar. together, but fighting against the Romans with the right winge onely, yet had the better, Plutarch, in and w.u too hard for that part of the Roman Army, that toyned with him; but the other Flaminio winge comming into the field, fit rather for amarch, than a fight, and not being able to order themselues Phalange-wise, were soone defeated, and the Roman victorious, fell upon the reare of the right wing (where Philip was, and had now gotten the victorie) o Appian in and so wonne the field. Antiochus unskilfull intrue ordering of a Phalange, tru-Syracis 197.D fled rather to his herfe, than his Phalange, and being to fight with L: Scipio, where hee (hould have given full scope, and extended the front of the Phalange, by making it 16 deepe he contrary-wife narrowed it drawing out the depth into 22: whereby he loft the advantage of matching the front of the Romans, and after his horse were beaten, p Plurarchain gaue facilitie to the enemy of encompassing on it all sides. P Perseus ioning battaile

with Paulus Emilius, as long as the Phalange continued in the right figure, flew many

of the Romans, and forced them to retire, but following on too eagerly, he came to un-

euen, and rough ground, wherein the Phalange being diffenered, left paces, and breaches for the Romans to enter and defeat it. So long then, as the Micedonian Phalange had fit ground, and the right property of embattailing, it flood fast against the Romans the greatest fouldiers that ever were, being in their hands, that knew not how to wie it (as a sword in the bunds of a childe) it yeelded to time and forsune. The cause of the strength of the Phalange is assigned to be

2 The manner of embattailing] Which confists principally in ordering of Tirget, and pike; in cloting of the Targets by Synaspisme, and in ioint charging of the pikes; which lying out thicke from the front, besides the horror of the sight, give almost an impossibilitie to enter the Phalange. I have alledged the indgement of . Emilius : Phasech in concerning the fight presented by a Phalange, when the Pikes lie fo charged out of the . Emilio. front. Polybius thinketh nothing can resist the force thereof. Livy, albeit many (Polyblib. 17. times more than partiall to the Romans, get in the selfe-same fight betweene Perseus 764. A. and Emilius gineth his indocement thus of the Phalasge: The fecond Legion (faith he) thin Decad. infinusted it felfe into the middle empre place and 6 halos gid the holos gid. 15.573.C. inlinuated it selfe into the middle empty place, and so broke asunder the Phalange. Neither was there any more euident cause of victory, then the fights in divers places at once, which first troubled the Phalange in turning many wries, and afterward plainly distoynted, and scattered it, whose forces being vnited and rough with charged pikes are intollerable. If by giuing on in diuers places you constraine it to bring about the pikes immoueable through length and weight, it entangleth it selfe with consused croffings. If at one time you charge it both flanke, and reare, they fall afunder like a ruinous building. As then they were compelled many waies to answer the Romans, and so to breake their battaile into many parcells. And the Romans vpon the first opportunitie of a breach straight waies conveighed in their troupes, who if they had met the enemy in front, had runne vpon the pikes, as in the beginning it hapned to the Pelignans, being too forward to come to hand, and could not have relifted the Phalange fast shut, and serred up for the encounter: thus Livy concerning the Phalange. Who albeit a Roman, holdeth the same opinion that Polybius doth. " And in an other place telling of Phillips encamp. " Livy decad. ing, he faith, he was lodged in a wooddy plot, which was writt for the Phalance, 4 lb. 1.18. especially of the Macedons, which vnlesse it cast the pikes, as it were, a muniment before the Targets, (and that cannot be, but in open ground) is of no great vic. So then if Pikes may be charged out before the Targets, the Phalange is of great wfe. But, that I may not seeme, to rely upon bare opinion, let us heare by an example, or two, the experience of the Pike, and Target of the Macedonian against the Roman armes. * When T. Quintus Flaminius the Rom: Conful had driven King Philip, and his army x Livy decad. from the streights neare Antigonia, seeing that the enemy kept himselfe with his 4 lb. 230.C. strength, and absteined from the field, he determined to try the Cities of Thesa. 4; and having wonne fome by force, fome by feare, he came before Rhage, and besieged it. He foundthe siege longer, and more difficult, then anyman would haue thought. And the enemy made his refiftance, that way, the Confull would hardly have beleeved, he could. For he imagined that all his labour should be in throwing downe the walls. If once he found passage for the Army to enter, there would after be nothing elfe, but flight and flaughter, as is wont, in wonne-Cities. But after that part of the wall was throwne downe with the Ramme, and the Armie entred the Citie by the breach, it was the beginning of a new and fresh labour. For the Macedonians, that were therein Garrison, being many, and chofen, thinking it also a glory to them, if they could defend the Citie, rather with

P'utarch.in

Amilio.

armes and valor, than with walles, ferring themselves close together in a deepe Pharange, when they perceived, that the Romans began to enter the breach droue them out, the place being cumbersome, and hard to make a retreat. The Conful much offended therewith, and thinking that shame concerned not only the delay of winning one Citie, but also the state of the whole warre, (which for the most part dependeth vpon moments of small matters) purging the place which was heaped up with the fall of the halfe-ruined wall, advanced a Tower which in many itories was fluffed with multitudes of armed men, and fent befides Cohorts vider their Enfignes to breake with maineforce (if it were possible) the body (they call it the Phalange) of the Macedonians. But the kinde of weapons and fight was more aduantagious for the enemy, than for the Romans; especially in that place, which was narrow, and streightned with the small space of the ouerthrowne wall. When the Macedonians, ferring themselves close, had charged pikes of a great length before their front, and the Romans, after their darts throwne in vaine against the Iefludo compacted, as it were, of the thicke knisting together of the Targets, had drawne their fwords, they could neither come up close, nor cut a funder the pikes. And in case they cut the heads of, or broke any, the steale amongst the rest of the whole pikes filled up the roome with their sharpe fragments. Toyne that that part of the wall, which was yet whole, secured the enemies flankes on both sides; neither needed they much ground in retiring or advancing to charge, which things are wont to cause the breach of array. There also fell out a chance which increased their hopes, and spirits. For the Tower being driven on vpon a rampier, that was not well rammed underneath, but had loofe earth, one of the wheeles finking deeper into the ground than the reft, made the Turret to nodd, & lie of one fide that both the enemy beleeved it would fall. and they within it were put in a pitifull feare. When nothing succeeded well, the Confull was cuill appaide, that the Macedonian fouldiers, and kinde of Armes, might seeme matcheable to his, and seeing no great hope of speedy winning the Citie, and that the place was vnfit to winter in, raifed his fiege. So berethe Macedonian fouldier is not onely equalled, but also preferred before the Roman, and that onely by reason of his armour, the Pike and Target. Another experience fell out in the battaile betweet Perseus, and Emilius, whereof I spake in this Chapter. The storie is this : The Romans comming to iowne batteil with the Macedonians, and nor able to come up to them by reason of the length, and joint out bearing of their pikes. There was one Salius a Captaine of Peliguans, who tooke the Enfigne of his Company from the Enfigne-bearer, and threw it into the Macedonian Phalange. The Pelienans ranne in heapes to the place (for it is not lawfull, nor honest, for the Italians to forfake their Enlignes) where the medley brought forth wonderfull effects. For the Pelignans fought with swords to put by the pikes, and to preffe them downe with their Targets. And seazing vpon them to pull them out of the handes of the Macedonians. The Macedonians contrary wife, maintaining their charge with both hands, and firiking fuch, as approched neare, thorough the bodies, as mes and all, neither Target nor Carace, being able to sustaine the violence of the blow, turned topfy-turny the bodies of the Pelignans, who not with reason, but with the rage of wilde beasts, threw themselves desperately vpon wounds, and vpon certaine, and fore seene death. So the formost falling, the followers began to flacke. And yet they fled not, but retired to the mount called

Appian in Sy- Olacrus. I will out of Appian toyne a third experience in the battaile of Antiochus

against L. Scipio, which I likewife touched before in this Chapter. As soone, as the Horse, and Chariots of Antiochus were put to flight by the Roman horsemen, and by Eumenes, his Phalange of foote being destitute of horse, first opened, and received the light-armed, (that had all this while fought in the front) into the middest of it. Then after-ward againe closed. And when Domitius Scipie's Lieutenant, incompassed it round with horse and light-armed, which he might eatily doe, by reason it was thrust vp into a thicke Plinthrum; it was driven to great distreffe; being neither able to charge the enemy, nor yet to countermarch in so great depth, as it carried. It grieued them much, that their long experience nothing awailed them to annoy the enemy, and that notwithstanding they were subject to arrowes, and darts at all hands. Yet, bearing out a multitude of pikes on enery side of their square, they called the Romans to come to handy blowes, and still made a countenance, as though they meant to charge, keeping themselues for all that within their Ranks, as being footmen, and heavy armed, and therather, becanse they had to doe, with an enemy on horse-backe. Besides they were loth to breake the thicknes of their battaile, which formethey could not now alter. The Romans alfo, durst not approach them, and come to sword, fearing their experience in warre, and closenesse of array, and desperation. But running about here, and there, plied them with arrowes, and darts, whereof none was throwne in vaine, falling amongst a troupe so closely put vp together, that they could neither avoide, and decline any thing throwns, nor give way, albeit they saw it comming. At last being weary, and irresolute what to doe, they retired easily, with a threatning countenance not with standing, and in good order, and not deliuering the Romans of feare, who durst not yet comencare, but fought to annoy them aloofe; till the Elephants placed in the Macedonian Phalange, being affrighted, and not to be ruled by their Gouernours, troubled all, and gaue occasion of flight: hitherto Appian. Out of these three examples, the truth of that , which Elian faith, is to be feene, that is, that the Macedonian Phalange cannot be forced, or refisted by an enemy, (taking with all Polybius his caution) if it be in the right posture, and figure, and have such ground, as is fit. The Romans the best fouldiers of all antiquitie were repulsed by it at a siege, forced to retire in a battell, durst not come neare it, after they had gained the field of the rest of the Army. And the Confull Amilius, a man that had feene much fervice, and fought many a battaile, and was one of the best Generalls of that time, confessed, he never faw to fearefull a fight, as when he bebeld the Phalange advancing into the field, the bodies ioyned, the Targets ferred, and locked together, darting out fire like lightning, the front rough with couched, and charged pikes, and armed with yron, and threatning present death to him, that durft approach.

3 Occupying two Cubits of ground] We may not take it, as though the fouldier betwie file, and file had two Cubits, or three foote of ground. For we learned before that in locking vp the Phalange, the distance betweene man, and man in front was but a Cubit. But it is to be understood betweene ranke and ranke. For Polybius faith, that the fouldier ought to have roome for the vie of his weapon, which cannot be, without granting him three foote behinde, the pike being some-times to be pushed forward, Some-times to be drawne backe, sometimes otherwise handled, as occasion of fight shall

The length of the Pike is 16 Cubits] 2 Sixteene Cubits, which is twenty See Leo exp.s. foure foote, is a great length for a Pike, and it verifieth the words of Livy, 5 3. 8 cap.6. that the Macedonian Pike is vnwealdy, by reason of the length, and weight; 33.

764. A.

764 A.

\$ 39.

bPolyen.lib.2. yet dee wee read of pikes of that length. The b Ædeffans had fuch. The c Chalvbes pikes were about 15 cubits long. " But 16 was the length at the first, the Macedoni-« Kenot hon de 2115 brought it to : 4, which they tooke to be a sufficient length against the chemic, and ea-

fier for the Vike-man to beare and bandle. expedit Cyr lib.4. 338. C.

The space in charging betwixt the handes taking vp two cubits | Herein is a difference betweene Alian, and Polybius. Alian would have no more, then 2 cubits lost in charging; Polybius (aith 4, are lest, and with Polybius agreeth Leo. But the e Polyb.17. cause of the difference ariseth out of the forme of the pike, and of the manner of holding it f Lco (27. 6. in the charge. If it be held at the butt end with the right hand, and supported toward the armed end with the left, as the manner in charging is it cannot lesse above two cubits, and Etian is in the right. But if, in holding it, you let the right hand 2 cabits from the buttend, then must a cubits of necessitie be lost. Whereof z rest behinde the right hand. the other two are taken up by the face betwist both hands. Our manner of charging is at this day, to take the butt end in the right band, and in lo dome we loofe but two cubits. But it feemeth our pikes are not mare in that forme, they were in Polybius time. In Polybius age they had wei his at the but: end to make the sharpe end the lighter, as the beaute pummell lighter eth the fword in handling, & This weight was called b scoma. g Polyb L 17. as it were a counter-weight to the heavine se, and length of the pike. Neither do I read any thing ellewhere then in Polybius, concerning the counter-weight of a pike. To the handle of an Oare, I finde in ! Atheneus, that lead was added, to make the part standing out from the shippe more light, But yet Polybius, and Alians opinions may well agree. and in pikes that have counterweights at their ends (the hold for charging being taken two cubits from the butt end) there may be lost foure cubits, where the other fort being held at the butt end it felfe, loofe but 2 cubits.

764. A. h See lul, Pollux for tecoma L4 C. 24.5 1. i Athen dir. nofo-h.lib.s. 204. A.

k Polyb, l.17.

The pikes of the other behinde, cannot reach to the first ranke | How Shall they beare their pikes then? * Polybius sheweth, what the manner was. Those rankes. (aith be, that stand behinde the fifth, can helpe nothing to the fight in front. And therefore they charge not their pikes low, but beare them towards their forestanders shoulders, the points somewhat erected to secure the battaile from about intercepting by their thicke lying the miffine weapons, which flying over the front, would otherwise fall upon their heads, that are placed toward the reare. Polybius faith the manner was, (neither to charge, nor order their pikes, but) to besse them forwards sloping towards the shoulders of their companions before. Tetby bearing them (o, what security they could give from the missive weapons, that came aloft, I cannot yet conceine. An arrow, dart, or stone, unlesse it his inst on the middest of the pikes, would do as much, and sometimes more, barme by glancing then if it had not touched them at all.

Some would have the hinder pikes longer] The opinion of them, whom Ælian here feaketh of , bath little reason to ground upon. For either the pike of them that come in the finerancks behinde, especially the two last must exceed in length, or else the fileleaders pikes in bortneffe, both which are alike unprofitable. If they bee too long, they cannot be welded, if thefe too foort, the enemie shall reach the file-leaders, and not the file-leaders the enemie. The measure of the longest pike was 16 cubits, which yet for aptmelle and wie was by the Macedonians reduced to 14. Say then the fixteenth ranke carrieth pikes of 16 cubits; two of the cubits according to Ælian, are taken away in handline other un by reason of the distance of the fine former rankes. Foure cubits alone remaine, and reach ouer the front. If the file Leader in the front shorten his pike to foure cubits to make an even extention, he shall not come neere the enemie by ten cubits, who in pulbing will reach home to him. For what length somer, is taken from the file-leader in

of Elian.

front, the same is given to the enemie, that pulbeth with him. And bee Ball bee able to yound the file-leader, and not the file-leader him, especially the pikes differing in so great

6 The superordinarie Lieutenant of every Syntagma I have before noted the datie of a Lieutemon: of the Syntagma, and it is here well expressed by Elian. He, that desiresh to see more touching the same, let him resort to X chophons Cyropædia : lib. 2. 28. and lib. 7. 178. B. and to Leo, cap. 14. 679.

> The place of the light-armed, and the number of enery file.

"Hus much of ordering and marshalling the armed-foote. I will adde a word, or two, of the light-armed, or naked. The Generall is to place the light-armed fo, that they be readie for all attempts of the enemy, sometime in front, sometime in flanke, sometime in the Reare, according to occasion or neeessity. For our purpose let them be thus ordered: We will frame also of them 1024 files as many, as the Phalange of the armed conteined; So that the first file of the light-armed be placed directly behinde the first file of the armed, and the fecond file behinde the fecond, and fo the rest. > Yet shall they not be fixteene to the file, but halfe so many, namely eight; so that in 1024 files there shall bee eight thousand, one hundred, ninety two men.

Notes.

Itherto all things concerning the aiming, filing, embatteling, number, command, distance and precedence of the armed are declared; and likewise, of the arming of the light and somewhat of their place. Wow followeth the filing , ranking; and place more exactly, and their manner of embastailing, with their several bodies, and

The Generallis to place] I have spoken somewhat before of the placing of the light. I will now anely adde a paffage of Leo tending thereunte. Leo faith thus, you alocap. 14 shall range the Archers behinde the reare of every file according to the number \$ 66. of the file, (that is four elight for twenty fix armed, proportioning an Archer for energy foure armed. Or if it be needfull, you shall order them within the files, an armed, and an Archer. Sometimes without the wings of the battaile; that is within the Horse. Oftentimes without the Horse a little distance, with a few Targetiers, to defend the vttermost flankes of the Horse. And this is to bee done, when you abound in multitude of light-armed. But those, that vie small dares, and iauclins, and fuch like are to be placed, either in the reare of the armed, or in the wings of the battaile, and not in the middel. The flingers are alwaies, to bee fet in the wings. Thus Leo placeth his light armed. But Elian here (as before in the scuenth Chapter) designeth their place in the reare, but fo, that bee leaveth it to the Generalls choice, and to the occasion of service to place them, as most befitteth. Being set behinde as Blians order is, they must answer the armed in number of files, & be directed by the files of the armed for their standing sthat is enery file of the light-armed is to order is selfe in a

The Tadicks

right line after a file of the armed in fuch manner, as the armed are before embattailed.

Einn in the beginning divided the foote into three parts, Armed, Targetieres, and light-armed. To the armed he bath ginen place, and maketh the Phalange to config them, the light-armed he ranged in the reare of the armed, which flad vectom of Tagetiers if for he speaked in the ranged in the reare of the armed, and next to the armed. Fiftheeass of they were placed amongs the light-armed, and next to the armed. Fiftheeass of Elian faith, many number them amongs the light. Then I (ce the Hypaspists placed betwint the Honse, and the armed in Alexanders fields, as Granicus, at Illos, and as Gaugame-13, Lassy Leo on the passing before recited, when he placed the light-armed without the Horse, he inputs I argetier with them, for their speaked. Cyrus likewise placeth them next the armed in the reare, and after them the Archers.

2 Yet shall they not be 16.] The sile of the light-armed is less in number, then the sile of the armed. For if they should be 16 in sile, the number being but haste to the sile of the armed, they should not be able to make above 522 siles, and breeding there by a disproprision both in placing, and corespondence one to an other, not equall the length of the Phalange. Besides should not sometimes, their siles weapons will be selected with more force against, their nemies, In as much as the bindermost of them are never the enemit by twentie four of edge, which the last eight in a sile of 16 deepe take up. And missione weapons, the less their compassions, who also are feet against amore, with more violence they piece. As they burt not greatly, if the distance be too surre, from whence they come.

The names of the bodies of the light-armed.

CHAP. XVI.

Their names and degrees are thefe. Foure files of light-armed are called ² a Spfafis of 32 men. Two Penticemtarity of 64 men. Two Penticemtarity as a Contary of 128 men. It a cuery Century Sught to bee 5 Superordinaries men: an Enfigue, a Reure-commander, a Trumpetter, a Seriesant, and a Crier. Two Centuries containe 256 men, and are called ⁴ a Pflay. Two Pflagiesa Xengy of 112 men. Two Xengies a Spfiremma of 1024 men. Two Episcenagies a Stiphes of 4096 men. Two Stiphes an Epitagma of 1024 files, \$192 men. These ought also to haue 8 Superordinarie men, whereof foure should bee Epinenagies, the other foure Spfiremmataries.

Notes.

As the armed were diffinguished, and sewered into discrebasics in the Phalange, he are the light-armed, in whom there one fit to be me less order, then in the armed. A multitude condigested bringesth with it disorder, and confusion. Neither can any service be expected from them, who by spe dissistant are not cash into bodies fit for service. We have before sphear of the name of the bodies of the armed, and noted, that they were not imposed with such propriety, sharthey could be applied to no other thing. At the fifty warre was made, and was wought, a wild be design space to go the restrict supplied with such and was sought to a wild be design space to see the restrict supplied with the such the premailed that was the strongest. Experience samples there were admanages in Time, in Place, in Order, in instruments of fights, in placing of men, and

Cap 16

The hight Armed A Dentecontare by

ed are before embattailed. ied are before embastattes, Armed, Tangetier es, and b the Phalange to comfit of d, what fadl vecome of Tage. ead in Arrian I whold think, armed. First becamfe Elian Hypaspins placed betwier s, as lilos, and as Gaugamethe light-armed without the

thers.

med is leff in number, shen
number being but buly to the
horse being but buly to the
dereading there by a diffraporequall the length of the Phaeri flying weapons with bee fent
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of light-armed are called " a erchy of 64 men. Two Penteought to bee 5 Superor dinarie, a Serieant, and a Crier. Two
sey. Two Pfylagiesa Xenagy of
Two Episcenagies a Stiphos of
8192 men. These ought allo uld bee Epinenagies, the other

diners bodies in the Phalange, fo no lesse order, then in the armed. d confusion. Neither can any fern cast into bodies sit for (erusce.We ed, and noted, that they were not cu, anamoicu, inasoucy were not o mo other thing. At the first warre ther) led with surse, and rage, and Experience taught there were ad-sof fight, in placing of men, and A Systans Cap 16 The hight Armed A Pentecontare by

A Contury

in other circumstances. Hence spring the Art of Warre, the diners formes of weapons; and the signres of Battailes. For the speedy framing whereas, the smaller bodies were invented, of which they consist. In building of a boule, you first bring timber together, and other matter, and then of it framewalls of a boule, you first bring timber together, and other matter, and then of it spame walls over windowes, resters, becames, and they copy, which must be all coning not together, before the salies being sound, and tonget together by Leavies, were armed, and after ordered into several bodies; and these together should be suffered by the salies of the salie

But here Imsy not pratermit the curiofitie of the Gracians in their appellations, and their plenty of speach, apt to give diversities o things, shat are divers. For where there we have no set ones, among it armed, and light-armed, which consist of the same number, and therefore, as it seemes, might well enough have beene comprehended ender one mame, the notwithstanding to avoide confusion, and for perspicuities sake have thought good to cell tiem by sundy numbers. Thirty two armed men are called a Dilochi; 32 light armed are a Systalis; 64 armed are a Tetrarchie; 64 light armed a Pentecontarchie; 128 light, a Hecatontarchie. Our tengue will not assert further the strength of the body, and of the command. A certaine number of Pikes under a Captaine we call a company of Pikes; So many sot under a Captaine well-keniscalla company of son. The Captaines, ones Captaine of Pikes, and the there are captaine of shot. A company of Curacers of harse, we call a troope of Curacers; as many Argoleters, a troope of Argoleters. The Commanders of either of them we some captaines, the meet Curacers, the other of Argoleteres. But let we come to particular explication.

1 Afghass] It commeth of Synistems to stand together: and asystalis is a standard together; which word albeit it may be extended to any kinds of people assembled, and standing together; weit is here appropriated to souldiers; and more particularly to 4. siles of light armed consisting of 22 men, 8 mengoing to the sile.

2 A Pentecontarchie] The command of 50 men. And foit was ofid of olde. But the Macedonians 2016 of men to this command, and yet relein d the name, because it was familiar, and nell knowre.

A Century] Elian e: lleshit a Hecatontarchie, the command of a 100 men. The name was visual before the Macedonians time, and it conterped 100 men. But the Macedonians game it 128 men. This was infereable to the Syntagma among it the armed, and had the like officers. Yet whether it had a Captaine, or no, may be some doubt; the rather because Elian in this Chap, nameth no Commanders, but Systrematarchs, and Epixenagies; and time the cause had been proved and the subject of the rather because I thinke they had Centurions also. For as enery body of the armed had a bead, for would thinke it requisite also amongst the light-armed, especially some there was a Bringer-up, and other officers belonging to a Company; which writesse there was a Bringer-up, and other officers belonging to a Company; which writesse them should the Crier, or Trumpets, or Stageant of the Centurie refort for direction? Adde, that the light were often drawne to the winges, so the front, or other places of service, which could not be come without Leaders. For no part a Systematarch, or an Epixemagic to lead a Century, were to leaue the resident the Centuries where them without a Commander. Bessetz.

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b Xenoch. de exped Cyri. lib. 1. 270 D e Xenoph de exped lib.4. d Arrian, lib. f Arrian.lib. 1.

23 B.

the Macedonians were very particular in their commands, and left no body without a head; which is the cause of the multitude of Commanders in the Phalange. But they are not here mentioned. No more are the Commanders of the horse in the division of the Lodges of the horse, and yet I thinkeno man will doubt, but the horsemen had Commanders. Luft.y, I finde in the Gracian historie, Captaines of the light-armed often named. Epithenes is said to be Commander of the Targetires, in a fight the Græcians had against the Pertians. Stratocles commanded the Cretan Archers in the returne of the Gracians out of Persia. L'Eurybates Captaine of the Cretan Archeis in Alexanders army was flame by the Thebans at the liege of Thebes. "When Antiochus the Capsaine of the Archers was dead, Ombito was chosen in his place. Mention is made alfoin Arrian of Clearchus the Captaine of the Archers. And when Elian e Arrian. lib. 2 calleth the 4 Systremmatarchs, and the 4 Epixenages Superordinary (Ectactous) he might have faid as much of all the other Commanders. And he faith expresty of the offecers of the Centusie, that they were (uperordinary (Ectactoi).

4 A Pfylagi | The word is a body of light-armed. Which word, if it were taken. as it naturally fignificity, is common to, and comprehendeth all the bodies of the lightarmed, whereof Elian feaketh in this Chapter. But here it is restrained to a body of light-armed, which comprisesh 256 men, and 32 files, and foit is to betaken.

A Xenagie | That is a command of strangers. Elian before faith, that a Syntagma was by some called a Xenagie. I baue given my opinion there of the original of the word, which I neede not to repeat here; This onely I will note, that of all the bodies of the light-armed, no one bath a common name with the body of the armed, but onely the Xenagie. And Elian givesh also that body of the armed an other name, calling it a Syntagma. The Xenagie bath in it 512 men, and 64 files.

A Systremma | & It fignifieth a conglobation or trouping together. Proper names are wanting for these bodies, and therefore such taken, as might at any hand signific the thing meant. In continuance of sime we hath gained a passage, and made them to be accepted as proper enough. The Systremma conteineth 1024 men, and 128 files. There is nothing to be found in Elian of the Chiliarchie of the light-armed; Tet doth h Arrian mention 2 Chiliarchies of Archers in the Army of Alexander.

An Epixenagie] Acommand abone a Xenagie; As afterward in the command of the horse, there is an Ephipparchie about a + ipparchie. The word is improper and hardenough; but when it is received by wfe, what should we feeke for more? It conteineth 2048 men, and 256 files.

A Stiphos] It is derived from fteibo, to thicken, and in penury of another name, this body of the light-armed is called Stiphos , because they are thickned , and thronged supether. There is init 4096 men, and 256 files.

An Epitagina] Is the last body among St the light-armed. The fignification of Epitalle is to place behinde. From thence commeth Epitaxis , placing the light-armed in the Reare, which word is after weed by Elian. Epitagma is derived from the same fountaine; and it is called Epitagma, not of placing behinde, (for sometimes they were placed before, sometimes in the flanke but it was the best name they could give to the whole light-armed. And ret it may be, that because all the light-armed in suncient time were placed behinde, the whole maffe was called Epitagma, as being placed after the armed intheresre. The Epitagma buth in it 1892 men, and 1024 files, for formany lightarmed accendate Phalange.

Eight superordinarie men] Why the fe eight men foould be superordinarie more than the rest of the Commanders, I conceive not yet. If Alians meaning be, that these alone shall command the light-armed , historie and practife of cancient times convince the of Elian.

contrary. Besides where he nameth foure Epixenagies, it agreeth with the number, that are in the Epitagma of light. But where bee addeth foure Siftremmatarchs more to make up the number of the eight Superordinarie, it is hard to knowe, which foure bee meaneth, considering there are eight Sistremmas in the Epitagma.

Now because the files of the light-armed are in embattailing to be marshalled to the files of the armed, I thought good to fes downe how the bodies of both agree, by comparing them together in files, not in number of men. For in number of men they cannot well agree, because the file of the armed hath more, then the file of the light armed. And the number of the armed in groffe is 16384, of the light-armed but 8192. And I will first beein with the Syltafis, because it is the least body of the light

The state of the s					
The bodies of the armed,	The bodies of the light-armed.				
A Tetrarchie	A Systasis.	5	files.		
A Taxis	A Pentecontarchie.	នឹ	files.		
A Syntagma	A Hecatontarchie.	16	files.		
A Pentecosiarchie	A P (ilagie,		files.		
A Chiliarchie	A Xenagie	32 64	files.		
A Merarchie	A(yftremma,	128	files.		
A Phalangarchie	An Epixenagie	256	files.		
A Diphalangarchie	A Stiphos	512	files.		
A Tetraphalangarchie	An Epitagma	1024			
	4 3				

The vse of light-armed foote.

CHAP. XVII.

Arters, Archers, and all other, that vseffying weapons, are good 1 to begin the fight a to prouok the enemie, to breake and shatter armour, 3 to wound, annoy, and beate downe a farre of; 4 to difaray the enemy, 5 to repulse their horse, to beat in their light-armed,7 to discouer suspected places, and to lay Ambushes. Lastly these first undertaking the Skirmish, and continuing it with the rest, and feconding them, and feruing 8 for speedie, and farre-of-attempts, worke many, and great effects in fight.

Notes.

"He arming, place, filing, bodies, and command of the light-armed are bitherto bandled: Now followeth the vie, and feruice they performe in the field. And first wee are to thinke of the bodic of an armie, as of the body of a man, that is compact of severall parts : Of which some parts are of more wie then other , some being able to performe their function without the helpe of the other, some except the other help, can doe nothing to purpose of themselves. The parts of an armie are like. The armed are the strength of the field, and are the refuge for the rest in extremitie. The light toyned with the armed, worke great effects (the ewhich Alian Beaketh of in this Chapter and many more) without them they cannot so much as maintaine a place in the field. And as Xenophon faith, a Xenoph Cy-Let them be neuer fo many in number, yet dare they not stand or abide a fewe 108. C. armed. In which respect, a place fit hath alwaies beene sought for their service, to secure them from the accesse of the Horse, or of the enemies armed. Which place was either be-

g Polyb. lib. 1.

h Arrian.lib.

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c Arrian lib.

hinde the Phalange (as Alian here would have it) or else in the wings between the Horse, and the armed, or if they skirmished loose before the front, and chanced to bee presled with the enemy, they retired into the internalls, and connected themselves behind the b Leo cap. 14 Phalange in Safetie. Leo Saith, if there be any place of strength, it will much helpe the light-armed. For after their flying weapons spent, retiring thither, they will be in more securitie, as a steeperockie place, or the bancke of a river, or a high hill, or such other. Our stories report, that at the battaile of Agincourt in France 200 English Archers were bestowed in a meddow fenced with a deepe ditch ; from whence they la acuted the French hor le and foot, that they were a great helpe to the victorie. The like happened before at Poitiers, where that braue Prince of Wales eldest sonne of Edward the third, having to fight with the whole you er of France under the leading of their King, gave safegard to his Archers, with hedges, and ditches, and other strengths. So that the French-horse having no accesse to disorder them, were overwhelmed with the tempells, and flormes of their arrowes, and fuch a victory obteined by our nation as might maich the most renowmed of all antiquitie. To say nothing of the invention which Hensie the fifth veed against the horse of France for securing his Archers. The storie faith, be denifed stakes of two yards long, and armed both ends with pikes of iron, the one to flicke into the ground, and the other to gall, and enter the horses belies, in case they came to charge our Archers home. By meanes whereof he carried the famous vittorie of Agincourt. This for the affurance of the light armed, when they come to fight, without which assurance, their service would be weake, and scarce worth the having. Their service then according to Elian bath many particulars. And they are good to

Prouoke the enemie] If the enemie be in a wood, a fenne, a hill, a fort, a towne, or other place of strength, that admitteth no accesse, the manner hath beene to send out the light armie to shew themselves, and with a Brivado to towle him out of his advantage, and bring him into the field, where he may more eafily be dealt withall. Examples are plentifull, but I will content my (elfe with a Macedonian example. Alexander leading his armie against the Triballs, that had hid themselves in a wood, commanded his Archers, and Slingers to runne out, and to shoote, and sling amongs the Barbarians to fee, if he could towle them into the plaine. The Archers, and Slingers spared not to let flie, and the Triballs being wounded with arrowes, threw themselves out of the wood with all speed, to fall you the ynamed Archers. Alexander presently commanded Philotas with the Horse of vpper Mucedonia to charge the right wing; on which part they cast out themselves furthest. And tieraclides, and Sopolis with the horse of Botties, and Amphipolis the left, himselfestretching out in length the Phalange of foote, & fetting the rest of horse before the Phalange, led against the midst of the enemie. As long as it was but a skirmish, the Triballs had not the worst. But after the Phalange close ferred came vp roundly to them, and the Horsemen charged them no longer with darrs, but pressed, and ouerbore them with their horfe, they fled thorough the wood to the river.

d Leo cip. 14. To beginne the fight] d Leo agreeth. If faith he, we have light-armed enough, let them, before the armie joyne, fend their darts, and arrowes at the enemie, and 5 lb. 2 39 B. after the fight of the armed is begunne plie the flanke with their miffine weapons, that at ouce both their flankes may be affaulted. It hath beene and is now the ordinarie courfe to beginne the fight with the light-armed. And because wee Shall read of no battaile almost wherein it was not so, I will for beare examples.

To wound a farreof] The light ferue to great purpole, if the Generall defire not to e Lindecad. 4. come neere to fight, but feeke to annoy his enemie a farre of without danger of his owne e Lineceau. 161. B. folkes e Liuy telleth of Cn. Manlius Volfo, that being to make warre against the Gallo Græcians.

Gracians, that fled into the mountaines, and awaited the Romans there, and fought to defend themselves, by advantage of the place, he prepared great plenty of darts, arrowers, bullets, and small stones for Slinges: and leaving his legionari. Souldiers behind, led his hort armed, against the every, that possessed certaine straights, by which his armie must passe. After some hight the Gallo-Gracians being not sufficiently armed, to d fend their bodies from the miliue weapons, the light-armed of the Romans forced the vallage. And following them cuen to the Campe, where their Companions came to their aide, they first droug them into their Campe, and after the Legion irie Souldiers comming up, they wonne it. I have before rehearfed the historie of Iphicrates, who with his Targetires (that came (eldone to hand blowes but plied the enemie with dar s a farre of) overthrew and flewe a whole Moira of the Lacedemonians. The Acarmans, likewife with this kinde of fight, much incumbred Agesilaus, that made an excursion into their Country. The flory is this, Agefilaus having taken a great prey, in the territory of the Acarnans, exenoph hiff. rested that day, where he had taken it, being busie in selling of it. In the means time many 512. D. Acarnan Targetieres affembled them (elues together, where Ageillaus was incamped woon the side of a mountaine, and with a arting and slinging, they forced his Campe to defcend to the plaine, themselves in the means time being free from burt. The next day Agefilaus led away his armie. The paffage out of the place was firaight, by reason of the mountaines lying about in a circle, which the Acarnans possessing, plied the Lacedemonians with darts, and stones, from the higher ground, and sometimes descending to the skirts of the hills, they pressed the armie lo, that it could not move forward. And when thearmed foote, or horfe, fell out woon them, they profited little : For the Acarnans retired immediately, to their strength. Agesilaus perceiving it would be hard for his armie to winde out of those straights, so long as the enemy so hung vpon them, resolued to charge those on his left hand. For the ascent on that side was more easie, both for his horse, and armed foote. Commanding therefore, his men to charge, the armed of 29 yeeres of age) first fell on , and the horse after them vpon the spurre. Himselfe followed with the rest. The Acarnans therefore, that were descended, and busie a darting, were quickly put to flight, and many flaine in feeking to remount the hills. But their armed foote, and most of their Targetiers, stood imbattailed on the toppe, and from thence both threwe other missions, and lanced lauelines, wherewith they wounded horsemen, and killed fome harfe. But being ready to be charged by the Lacedemonian armed, they fled, looling fome 200 in the flight. Thefe light-armed then, as long as they can keep aloofe from the enemie, annoy them fore by wounding (as Æ ian faith) a farre of; as soone as the armed come up, they are glad to quite their place, and faue them selues by flight.

4 To difarray | So long as a battaile remaineth in order no victorie is gotten against it. Breaking of array, and dishanding are companions of flight, and of for laking the field. The armed, that are to endure the efforts of the light armed, must either keepe still their order, and suffer themselves, to be knocked downe, and staine, as they stand, or else prouide for themselves, by flight, or by yeelding. For the light-armed effect with their missive weapons the one, or the other. An exampl may be scene in the Ægyptians in exenoph Cy-Cræfus his battaile, who after the defeate of the rest of the armie, maintained jet the ro. bb.7.178. fight, and zeelded not to Cyrus, though he had now the victorie. Cyrus at the first charged their backes with his horfe, and being not able to treake them, was faine to command his Archers, and darters, to shoote and cast their darts at them: whirby the Egyptians after many wounds, and losse of their people, were finally constrained to yeeld. Alike example is before alledged f of Domitius the Lieutenant of L. Scipio, who with missing f Appian.in weapons alone forced the Macedonian Phalange to scatter, and take them lues to flight.

Craffo.

beil. anican.

5 To repulse their Horse | The light armed alone, without a sure recreate to the armed, or elfe some place of strength, can doe little in repulsing of horse. I have shewed b Plutisch in before in the exploite of Craffus into Perfia, how the light atmed were beaten in by the Perlian horie, and by the shew of wounds, they received, and with their feare, discoue Plut in Ant. raged the armed. The like happened in . Antonies retreate out of Persia, the lightarmed being faine to shroude themselves from the Persian horse within the Phalange of the armed Be they never fo many without fome such affurance the horfe will foon overrunne them; having this affurance their feruice much afflicteth horsemen both in wound Liu, decad. 4. ding them, and in killing their horfe. I herefore d of ancient time it was viuall to minole

lib. 1.16. A. B. horfe, and light armed together. For the enemies horfe fo charged, cannot be able torefift both. Anotable example is in . Hirtius : Cæfar, faith hee, having a journey in hand, and but a small number of Horse, and legionary Souldiers, was in his way fer vpon by the enemie abounding in store of Horse, and of light armed Numidians amongst them. And when the Souldiers of Cafar fellout to charge, the enemies horfe galloped away, and the foote stood fast, till the Horfe with a full carrearereturned to the rescue. This kinde of fight troubled Casar much, and would baue troubled himmore, had hee not recovered hills that were not farre of, and by that meanes shaken of the molesting enemy. And for repulsing horse there is no better meanes for the armed foote, then with the light armed to line that part of the battaile, where the

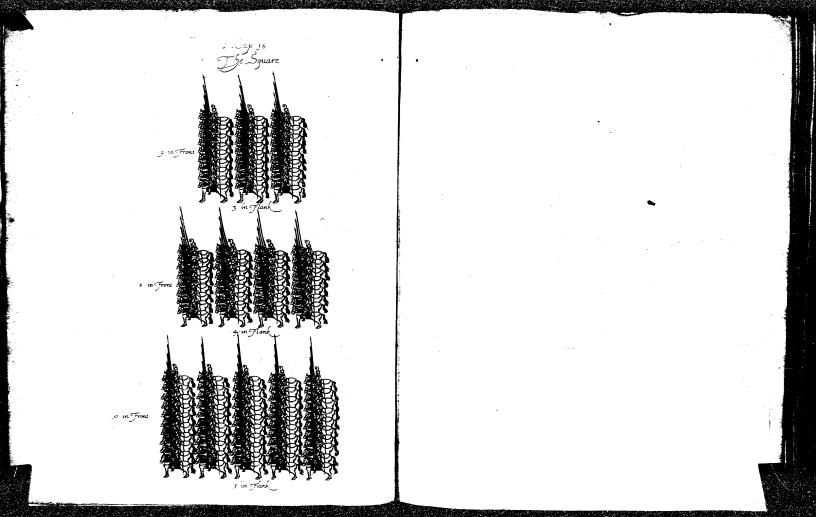
hor le shall be about to give on .

6 To beat in the light armed The light armed being nimble and quick, and leeking alwaies advantages by changing of ground, can never be forced by the armed foote, (who are charged with beaute furniture, and by rea (on thereof can make no feed) to feeke succour in the battaile of their armed. Either they must be beaten in by the horse, or by the contrary light armed, as Alian hath heere. The Horse are commonly to encounter with Horse, and the light-armed with light-armed, among it whom the greater number prevaileth, their skill, and armes being alike. For the fight being a farre of, many will f Xenoph. Cy- fooner wound, or kill a few, then a few many, faith f Xenophon: If the fight bee at hand the better armed, or better minded will drive the other out of the field. The & Roman Horfe, and the light-armed, were too bard for the Macedonians, and chafed them to their Campe. And that happened by reason their armour was fitter to close, and to fight at hand. So our Archers at the battaile of Crefly compelled the Genua croffebowes to for ake the field, the english bowebeing better in we, then the Genua crossebowe. When they have made the contrary light armed to quit their place, they are at li-

berty themselves to serve, where most advantage may be had of their service.

To discouer suspected places, and lay ambushes | Suspected places are such for the most part, at ambushes are laid in. Ambushes are of two kindes, being laid either to endamage the enemies battell in the field, or to hinder, and disapoint his march. The places, such as are removed from fight, and had neede of special discovery. As woods, mountaines, forrests, rockes, banckes of rivers, caues, hills hollow, and deepe waies, and the like, The most part of which are rough, and intricate, and scarce passable for the heavy armed, and horfe. But the light armed that are not incumbred with weight of armes. able quickly to advance, or retire, are fittest to lie close in such places, or to search if the enemie be lode d there. For the first kinde of Ambushes wee read, that both heavy armed. and horse have beene imploied. The warres of Anniball in Italy afford plenty of examples herein. For the other, which is to be fet or discover wates, there are none fo fit, as the light armed, whose quicknes, and expedition, give then advantage to asfault their enemy with their missue weapons, though the ground be never so vnequell, and meanes to view any place suspected without almost any danger of their owne.

8 For



8 For speedy and farre attempts] A beaute armeelman is not fit for furre or fuldered attempts; be its armeel for a firme and fleelfash figur, and not for conventations. Alexander, who shopsower he was to offe expedition, sooke with him the horse and logic armeel, leasing the armeels come after. * So did be, when he apprefied Clytus, and Glauachias in their compet's O whom he possible diminsles of the strengths of Clicias's fair pare to Arrianliba. wenting of the burning of Tartus, s' so nicketing to take the straights of the Vaians, 31.0. each to Generalises, thane noted in other places. For when Celerity is requisite, who so site to be implied, as they who have nothing to him exther speeds? the Tarquiere habut to R. a light target, and a spears extended the site of the straight of the s

The falbion of Horse-battailes: and first of the Rhombe, the Wedge, and the Square.

CHAP. XVIII.

Those, that have written before mee, have diversely framed Horf-battailes, fome of inthe fourses, some longer in flanke, then in froms, some like a Rhombe, fome like a Wedge, but none of them have (if I may speake freely) expressed fully their owne conceits. Therefore to make all things cleere, and better to be evadefrood, I will fet downe the seweral signers of each several kinde.

It learneth the The station whose power was great in Horse, were the first, that vied the kinde of battaile * fathioned in forme of a Rhombe (the inuention where is attributed to Instant) as fitted for all encounters; The Harseman thus ordered being ready to turne their faces enery way with speede, and not easie to bee surprised in stantant or the Reare. Because the best men stant in the Sanke; and the Commanders in the Angles, as namely the Captaine of the troupe in the strong, and in the right, and left Angels those, that are called Flanke-commanders, and the Leitutenant in the Reare-angle.

3 The Scythians, and Thracians have vsed Wedges, and likewise the Macedonians by the ordinance of King Philip. For this kinde of battaile was held of mor excit see, then the square, because the Commanders are placed in a circle; and constiting of a narrow front, it maketh readic passage thorough any distance, and an easier wheeling and returning to the sint possure, as having no such troublesome windings about, as hat the Sauare.

*The Perians, and Sicitans, and most Grecies made choice of Squares, being of opinion they were more easie to frame, and sitter for soint-mouing of the Horfe, and more criteculal in vie. For they are fooner in order being digested in the control of the state of the

into files, and rankes, and in this order alone all the Commanders fall vpon, and charge the enemie with one maine force. Those are best Squares, that double the number of the length to the number of the depth. As when there are eight in length, and foure in depth, or tenne in length, and five in depth. These in number are of vnequall iides, but in figure foure Square. For the length of a Horse from head to taile compared with his bredth requireth more men in rank. then in file [to make vp the Square] Some allow thrice as many in length, as in depth, and thinke by that meanes a perfect (quare may be formed : because for the most part, the length of a Horse seemeth thrice as much, as the bredth betwist his shoulders. Therefore they give nine in front, and three in flanke. For a multitude of Horsemen yeeld not the same aduantage behinde, that foote doe, when in the depth of the Battaile they jointly thrust on; in as much as the Horse helpe nothing to the setlednesse of fast resistance, being neither able to thrust those forwards, that are before, nor yet to linke, and knitte with them, and so to make one weight, as it were, of the whole body; and in cafe they presse vpon the formost, by disordering, and distempering their owne Hotse, they annoy themselves more, then the enemy. Therefore it alwaies falleth out, that when there are as many Horse in length, as in depth, a Square of number is made, but the fides of the figure are vnequall, the depth exceeding the length in proportion: but when the figure of the Troupe is Square, the number of the fides and front, is vnequall.

Notes.

I Nthe lecond Chapter of this booke, the armie was divided into two kindes, footemen, and Riders. Footemen againe into three armed, Targetieres, and lightarmed. Of these three is bither to treated. Riders follow, who either vsed Horses, or Elephants. Horfes either alone, or elle in Chariots. Of thele Elian treateth leuerally bereafter. For the arming, and place of Horse in the fielde, hee hath (ufficiently spoken already. The following discourse is: First, of the manner of embattailing horse (wherein he setteth downe the diversity of vlage in ancient time) Then of Chariots, and lastly of Elephants. * That a horfe is a kinde of beaft, that loves man, and is most faithfull unto him Pliny tellifieth. The vee of him is for carriage, and for feruice in the field. And in the fernice of the field an armie without horfe, is in a manner no armie. Iphicrates (as I have (sid before) comparing an armie to a mans body refembleth the horfe to feete. And as the body hath no tower of mouing, or rather remouing, the feete being lame, or taken away. (o is the armie flow, and unfit for expedition, that is defitute of horse; and may be well resembled to those beasts, that creepe von their bellies, whose greatest halt is with little speede. The horse do great service in the field of themselves alone; and are principally imployed in matters that require quicknesse in dispatch. Therefore are they fit for discoueries, either of the enemies country, or of his campe, or of his marche, or of other things, whereof the Generall defires to have notice. And not for discoveries alone, but to spoile, and destroy, what some the enemy hath growing, to make prey of his Cattle, burne his houses, kill his people, surprise his places of strength, and to embarre him from doing the like to vs; to brim and conney provision for our Campe, to (but in the enemie, that he goe not out his campe for like causes, to hinder the enemies march by falling on the reare. Briefely all expeditions of celeritie are for the most part delivered to the horse alone. Especially as long as they are in such places, as give them liberty to go on, or retire at their pleafures. Tet are they often jouned with the light trened, as I have flewed. They often joine

likewise with the armed. And if they may come to charge the enemies battaile in the a Diod. Sich flinke, or reare, at fuch time, as our armed charge in front, they indanger all. But for lib. 16.512, finnes, or reart, at just the armed foote many examples of former times (hew, how Pol. lib. 3. weake there force is. And how little they preuail (effectally against armed, that are) & Hitting de practized in fight, and resolute Souldiers) The examples I have quoted in the margent bell. African. make the matter cleare. For further confirmation I will fet downe Xenophons opinion, exped. Cyr. which all be it, it were delivered concerning the Perlian horfe, that came against the arm lib 3:309. B. ed foote of the Gracians in their return out of Pertia yet the reason stretchetis to all horse Appear in Par. in generall. His words found thus : " If any of you taine in minde (faia he to the Gra- 164. cians) because we have none, the enemy many horse, let him consider, that ten e Xenoph de thousand horse-men are no more, then ten thousand men. For no man was euer caped Cyrlib. flaine in battaile by byting, or firoke of a horse: Men they are, that performe, whatfoeuer is done in fight. As for vs (the foote he meaneth) our mounting is much more firme, and ftedfast then theirs. They hange vpon their horse, and are in feare not onely of vs, but to be thaken of and throwne to ground. We contrariewise haue stable footing, and shall be able both with great assurednesse to strik. and direct our aime with more certainty. One advantage the horse-men haue, they may more fecurely runne away. Hitherto X enophon. And fo much is fummarily (boken of the feruice of horfe.

I The Theffalians, whose power was great in horse | The Theffalians inha-

biting about the mountaine Pclius were the first, that fought on horse-backe, and were

therefore called Centaures. When they watered their horfes in the river Pencus, the horse heades stooping to drinke made the unskilfull multitude, who saw the bodies of men soyned to the shoulders of the horse, conceive, that the upper part was man, and the neither Oxe. For it should feeme, horse were not so well knowne then . as Oxen, with which they laboured and plowed their land. The Poets therefore fained, that they were monsters compounded of two diners natures, man and oxe, or bull; and that Centaurus, the beginner of the race was begotten by Ixion opon a cloude, which was figured like luno. Howbest Servius queth abetter originall of the name, faying, that certaine fervants of a Theffalian King feeing their masters Neate, raging with the Brimfe (a flie that biteth cattell) got a horse backe, and pricking them with goades, reduced them to their stables; and that they were after called Centaures, Para lentein tous taurous, of pricking the neate. The great Etymologicon giveth yet an other beginning of the name. For where I have faid that Centaurus was begotten by Ixion upon a cloude, which was figured like Iuno, with whom Ixion was in love: The Etymologican faith, the sonne of Ixion, and of the cloude was called Centaurus : Apo tou ton patera autou kentein ten auran. But d Diodorus Sicul. reporting the historie of the Centaures, speaketh net d Diod. Sicul. of Centaurus, the father of the race but faith notwithstanding, that they were bred of a cloude, and that the Nymphs brought them vp, and that they were the first horsemen, and therefore called Hippocentauri which gaue occasion to the fable, that they had two natures. It is generally agreed, that thele Centaures were Theffalians, and that they were the first horsemen, that are mentioned in any history. And as exenoph, hist. they were the first, so by reason of their long practife they were accounted the best, the Gree lib. 7. most valiant, and the most expert horse-men of all Greece, even to the time of Philip, flut. lib. 7. forme of Amintas King of Macedonia, who conquered all Theffaly (faith fluftin) not 633. C. of desire to make himselferich of the prey of that Countrey, but to winne to his g Dood. Sicul, armie the ftrength of the Thessellan horsemen. Whose service he vsed afterward & 594. in all his war. Weither did they leffe feruice to his fonne & Alexander, in whole greatest Plurarch. in battailes their vertue clearelie appeareth, and is especially commended by histories. b Pyr- helicin Pyrthi r. us;

hifter, lib. 7. cap. 56.

e Plutarch, in Xenoph Hit. gize lib 4. A SIE

1. definit. 3 1.

rhus alfo, principally by their valor, put the Romans to flight. Agefilaus returning out of Alia towards his Countrey led his armie through Theffalie, and being much incumbred in his march by the The Hallan borfemen, that were his evenies, hee charged them and overthren ethem, and pleased himselse marvellously therein because with troupes of horse, which himselfe had raised, and disciplined, hee had overthrowne the Thessalians, that were (sath Xenophon) so highly renowned for horsementhip.

2 Fashioned and torme of a Rhombe | There are three kindes of horse battailes mentioned by Elian, the Rhombe, the Weave, and the Square. And the fquare is either a suft (quare, or linger in flanke then in front, or in front then in flanke. The Rhombe was the invention of the Theffalians, and in that forme they voully fought. But where be maketh lason to be the inventor of it, he afterward expoundeth his owne m aning, attributing the invention to Ileon the Thesialian (from whom also it was tearmed ile) but the chiefe practife to Iason. Euclyde defineth a Rhomve in this (ort: f A Rhombe is a fquare figure, that hath the fides equall, but the angles not right. That is, the foure fides of the (quare are of one, and the fame length, but the points, which make the angles, are two of them firetched out in greater length, and become more sharpe. two of them brought marrower together, and made more blunt, then the right angles of a Tetragonall (quare. See the figure. It is the fame figure in a battaile, that at this day we call the Diam and battaile, which is (ometimes practifed among st the foote for thew. and exercise sake, but among st the horse I have not seene it practised. And as the square goth to charge with all the fouldiers, that stand in one of the sides, that is with the front. (for the front is but a fide of the (quare) (o the Rhombe chargeth with one of the points which withe front of the Rhombe. Whether of them is of most we inthe field . I am not to determine. For the square standes the practife of our daies, besides the viage of the Persians, Sicilians, and most Gracians, as Ælian (aith. For the Rhombe the Thessa. lians alone (which not with standing were acknowledged the best horsemen of Greece) unlesse we allow the Wedge for a parcell of the Rhombe , (a Rhombe being but a double Wedge, as making two wedges, when it is divided in two) and then have wee for the Rhombe not onely the Scythians, and Thracians (both nations very good Horsemen) but King Philip Amintas Jonne, and Alexander the great, and his Jucceffours. Fither of both formes have their reasons. For the squares they, that we them, held opinion (as Elian (aith) that they were easier to frame, and fitter for joint moving of horse, and Goner in order of file, and ranke, and that the Commanders jointly charged the enemy. which in no other forme could be done. For the easine fet of rame I fee no great difference. onely custome, and vermust in every forme, yea in the squares themselves make the horseman ready to know, and take, and keepe his place. The fame may be faid for the joint moouing of the horfe. Now to file and rancke is common to the fquare with fome Rhombes, and as foone done in the one, as in the other, the number of the troupe being once knowne and enery horseman having his place assigned, and the forme resolved upon , into the which it must be cast. For wherethere are 4 kinds of Rhombes, one, that fileth, and ranketh; an oth r. that fileth, but ranketh not; the third, that ranketh, but fileth not; the last that neither fileth, nor ranketh (as Elian teacheth in the next Chapter) The first will finde no more difficultie, of fing, and ranking, then the square, the two next albeit the one ranke not the other file not, yet the want of filing, or ranking hindereth no more the readine le of framing th. m. then the vie of filing, and ranking helpeth the other. The fourth is rather curious then profitable, as I take, neither doe I finds example of it. And it may bee truly affirmed of it, that the fquare is much essier to be fashioned. We shall have occasion to fleake of the last three in due place. Touching the ising falling on of the Commanders, I confesse the advantage is great. For when the best men (such as the Commanders ought

to be) altogether fall upon the enemy, they are very like to put hard to them. And as it is a great part of skill to bring many hands to fight, fo is it no leffe. to bring the best hands to fight. Many hands make light worke, the best hands sure worke. Now for the Rhombe Elian alledgeth these reasons. First, that it is fittest for all encounters, because the horsemen are ready to turne their faces enery way with speed. Then, that they cannot be surprised in flanke, or rewe, hautno the best men in their flanks, and the Commanders in every point of the Rhombe. And cannot the square turne faces enery way? They can, but not with the same advantage. For the Rhombe, which way former faces are turned remaineth in the first forme. And whether it be to the right, or left flanke, or to the reare, it keepeeh fill 4 even fides, and the men of most feruice in the sides. Besides that one point alwaies affronteth the enemy. Not wnlike a Calthrop, which how foeuer you cast it to the ground, bath one point bearing right up to wound the horfes feet: But the fquare in turning faces to either flanke altereth the forme of the front. In a broad square, the front at the first was longer than the fides, faces being turned to either flanke the fides become longer, than the front; contrariwise in the Herse battaile. Besides in such turning of faces the square leeseth the advantage of embattailing, the Commanders, that flood in the front, standing now in one of the flanks, and being not able to charge the enemy jointly, (the greatest advantage of that firme) and fo the front being without Commanders, is subject, and in danger of surprife, where the Rhombe, which way foeuer faces turne, hath as many Commanders in the front, as at first. But let us take the borfe fquare in full ftrength with all Commanders in front; whether shall that forme be better, than the Rhombe? I dare not affirme it. For where there are two kindes of fight; One with maine force, the other with fleight, and Art; in the first I will preferre the square, in the last the Rhombe. The square for stanghter and violent overthrowing, the Rhombe for piercing, and artificiall breaking the enemies battaile, which last among st great Commanders hath alwaies beene accounted the best kinde of winning. In the square all the Commanders fall iointly upon the enemy, and because they are supposed to be the chesse of the Army, in all likelyhood they will overthrow the formost and slay many. Yet by reason of the length of their front, they sticke man to man, and can make no farre entrance, and the victorie hangeth doubtfull, till they have flaine the most of them, that refest, and so make the rest to flic. The Rhombe contrary wife, being narrow, and pointed in the front, first forceth a passage with the point, which maketh way to the rest that follow, and then without great labour piercing further, and further, breaketh the adverse battaile, or disperseth, and putteth them to flight, and after doth execution at pleasure. Neither can I make a fitter resemblance, then by comparing the 2 figures, one to an axe, the other to a wedge, both instruments vied for dividing folid masses of wood. For the axe, albeit sharper, than the wedge, yet having the edge drawen out in length, can not by any strength be driven farre into the wood, but by doubling many stroaks, and by much labour commeth at last to divide it. The wedge contrary-wife, though not fo sharpe, being once entred, insinuateth it selfe more by litle, and litle with the narrownes of the point, and maintayning the hold it first got, at last forceth it asunder, though it beneuer so tough. So is it in the square, and Rhombe : whereof the square beginneth, and endeth with violence; the other weeth first cunning, and mildenes, as it were, to enter: being once entred renteth a peeces, and disparteth all that standeth in the way. The manner of our times alloweth not of Rhombes; Experience of former times highly prized them. I will infift upon the Thessalians alone, who are accounted the inventers of the Rhombe, or fought alwaies Rhombe-wife. Polybius had Seene their fernice, and beene Generall of the Horse in his owne country, and therefore able to indge. He giueth this censure of them; * that in troupes, and being imbattai- 2 Poist. L.

led, 178.B.C.

646 B.

led, they could not be relifted: to fight man to man in fingle combat, they had neither will, nor courage. What then flould be the resson, they should be so powerfull in troupes? No other then the forme of their imbattailing, which forme was the Rhombe here mentioned by Elian. In this forme they commonly beat the Gracian, and Persian fquares, and gat the reputation of the best horsemen of Europe.

3 The Scythians and Thracians vsed the wedge] The Rhombe is of 4 sides, the wedge but of three : and halfe a Rhombe maketh a wedge, as will be shewed in the next Chapter. The wedge was wiea by the Scythians, and Thracians, and whether King Philip of Macedonia borrowed it of them, I am uncertaine. But I rather incline to thinke, that his Theban Master taught him as well the wedge, as other formes of b Diodor Sici battailes. The cause of my coniecture is, for that I finde that his o fellow scholer Epac Xenosh hilt, minondas beat the Lacedemonian horse at Mantinæa in that forme. E Xenophon Grac lib. 1. recounterb the storie to this effect : The enemy (they were the Lacedemonians) ordered their horse like a Phalange of armed in depth, without mingling soote with them : But Epaminondas made a strong wedge of horse also (for before he tells the Theban armed were cast into a wedge) and ioyned some soote with them, conceiuing after he had cut in peeces the horse, he should not misse of ouercomming the other forces of the enemy. And so going to charge he was not deceived of his hope. Thus Xenophon. Of ioyning horse and light armed together, I have spoken before: And that they were light-armed, that Epaminondas toyned to his horfe, " Diodorus Siculus sherreth. By Xenophon then it is plaine, that not onely the Scythians, and Thracians, but the Gracians alfo, when they thought u convenient, vied the horsewedge, and that Epaminondas ordered both foote, and horfe in a wedge. And confidering King Philip was brought op in Epaminondas his Fathers house, and made partaker of the learning wherewith Epaminondas was instituted; it is like in creeting a new military disculine among it the Macedonians, as he tooke many other things from the Gracians, to be borrowed this forme, having first Jeene the notable effect thereof at Mantinea.

Now Elian bringethreasons, why the wedge was holden better than the square. Let me with leave adde a word or two why Itake it to be better than the Rhombe. And first it cannot be denied, that the wedge having the same manner of disposition that the R hombe hath, that is a front ending in a point, where the Captaine flandeth; two points of the two flinks, where the flanke-commander flands, the Licutenant in the reare, and the best men in the flanks, but it must be as powerfull to open the enemies buttaile, as the Rhombe is. Then it hath this advantage of the Rhombe that it bringeth more hands to fight. For let the Rhombe and wedge be framed of an equal number, the wedge in figure resembling the forepart of the Rhombe must have the horse that should be ranged in the reare of the Rhombe, orderly couched within the 2 states thereof : where by both the number of the horfe in the fides is increased, and the bulke of the body betwixt flanke and flanke inlarged. And feing both the Rhombe and the wedge goe to the charge with the point of their front, the wedge both hath the property to pierce, and enter the enemies bastaile by art, and fleight as well is the Rhombe, and asthit with more fireneth, because of the great number of hands in the sides, which all come to fight. Toyne, that the hinder part of the Rhombe ferueth onely to avoide surprizes, and worketh nothing in charging. For after the two flanke points are entred, the rest of the Rhombe growing narrower, and narrower toward the Rearc, falletin further off from the enemy, and is content onely to follow the way, that was made to hand by the front and flanks; without being able to firike a firoke; especially if it preserve the order it ought to keepe: whereas all parts of the wedge are effectuall, the point to enter the lides even to the flanke corners.

where the Reare endeth, to dispart and dissever; and finally to disorder the enemy, whereby the victoric ensuch. And if we may rely upon authority, the authority of King Philip will Iway much for the wedge. For vnleffe he had held it better than the Rhombe, bee would not have chosen, nor accustomed his Macedonians to it, nor Alexander after reteined it, if he had not beene of the same opinion. Neither aid the euent acceive them: for almost in all battailes their borse thus disposed caried away the victorie. But, as 1before noied, neither Rhombe, nor wedge have found grace in the eyes of the great Generalls of our daies, nor can we tell what to infist upon, till experience hath taught, how well these formes will agree with the weapons, and service of our moderne warrs.

of Ælian.

The Persians made choice of squares | The square is the third, and last forme of horse-battaile that Elian mentioneth; whereof there are three kinds; one with a larger front, then flanke; an other with a larger flinke then front; the third, with front, and flanke equal. All thefe three were wfed among st the Perlians, and Gracians. For two of the first, Xenophon may witnes. When Agelilaus, after Tiffaphernes (the King of Perila's Lieutenant in part of the leffer Afia) had bi oken truce with him, made an incursion into Phrigia, h Xenophon telleth, that the rest of his journey was with- h Xenoph.Hdt. out impediment, till he came not farre from Da/cylium. There when his hotle-grac lib 3. men galloped to a hill to discouer the country, by chance the horsemen of Phar- 498.D. nabazess (an other of the King of Persians Lieutenants) being about the same number that the Græcians were, and sent by Pharnabazus vnder the command of Rathynes, and Bancaus his baftard brother, galloped up the fame hill, and discouering one the other no further of, than two parts of a furlong, at the first they stood still; the Græcians ordered Phalange-wife 4 in depth, the Barbarians making their from 12 in length, the depth many more. Afterward the Barbarians began first to charge, when they can e to hands, all the Gracians that iouned, broke their staues. The Persians having Corneil darts killed some 12 horsemen, and 2 horses. Herevpon the Græcians sled. But when Agesilaus came with the Armie to the reskew, the Barbarians againe for soke the field. The Persians then ved a square longer in flanke then front : The Grecian a square longer in front, then fianke. But which of the three squares is most to be esteemed Elian sheweth in the words following, saying those squares are best, that

5 Double the number of the length, to the number of the depth] What the length, and depth in a battaile are, we have seene before. Tetto understand Elian the better, let vs repeat, that the length of a battaile is the extention of the front; the depth the extension of the flanke. To double then the number of the length to the number of the depth, is to place twife sominy men in front, as in flanke. As for the purpose, 6 in front, 3 in flanke; or 8 in front, 4 in flanke; or 10 in front, 5 in flanke. And shat this was the manner of the Lacedemonians appeareth by the Oulamos, or horse-troupe i Plurachim instituted by Lycurgus, which was figured Tetragonally with 4 equal sides, and con-Lycurgo. teined in it 50 horse. Now that it could not be a square of number, that is, to have as many herfe in flanke, as in front may hereby be shewed, because no square number will make 50. The nearest is 7 times 7, which amounts to 49. But proportioning the number of the length double to the number of the depth, that is 10 in front, and 5 in flanke, euen 50 will arile. So that the horse troope of the Lacedemonians had the number of the length double to the number of the depth, and made a square in the equality of measure of the fides, not in number, which is the Tetragonall foure, whereof Plutarch feaketh. And where Xenophon (as I have alledged before) reportes h that the hor (emen of Agelilaus were but 4 in depth, it hindereth not this truth. For, as I noted before, the ordinary aray of the Lacedemonians foote was 8 in depth. Tet did Paulanias the Lacedemonian

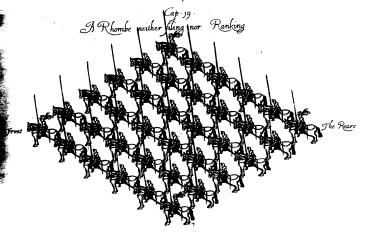
k Leo cap. 12.

King cast his men into a deepe Phalange against Thrasibulus. Other examples Thane alledged in the same place touching the same matter. Besides this appeareth to be but atumultuous fight either of the parties comming Soddainely in the fight of the other , and going prefently to charge, before they could have time to alter the order they then were in. And to fay the horfe troupe of the Lacedemonians ought to have beene but A in depth. it must thereof necessarily follow that they were 12 in length, which yet will come thort of 50: Atimes 12 makes but 48. Indeed Leo holdeth opinion, that in a horfe battaile, the depth ought to be no more than 4. I will fet downe his words as neare, as conveniently I can english them. The depth, faith he, or thicknes, as it was of ancient time limited, is iufficient, if it be of 4 horse in euery troupe; because in horse a greater depth will be idle, and to no purpose. For they cannot, as foote doe with their thicknes, thrust one an other forward from behind; and so the formost, will they. or nill they, are forced to goe against the enemy. And this is done amongst foote. But the horse can not thrust forward those, that are before them, nor the file-leaders that it and in front, be seconded in that kinde by the rest, that stand in depth after the fourth man. For if they be Lancers, the fift ranke cannot reach with their launces to the front. If Archers, they shall be faine to shoot aloft for feare of hurting their companions before; and so their arrowes serue for no vic, after fight is joyned. Therefore is the number of 4 sufficient in depth, as I have said. This was the opinion of Leo. To which I cannot absolutely affect; wheffe he had given 8 for the front of his troupe, and fo made it of a equall sides in figure not in number. as Elian reanireth to be done in the best squares. For the reason of launces not reaching to the front in the fift ranke, reacheth not home to the reason of warre. Elian before hath declared, that the pikes of the feventh ranke reach not to the front of the Phalange. Tet no man will thereof inferre, that the Phalange ought to be but 6 deepe. Yea but the foote shat come after helpe the formost, seconding them, and thrusting them on with the weight of their bodies, which the horse can not doe. This must be granted to be an advantage, that toole have about horse in depth. Yet are there other reasons also of giving depth to a Phalange: In the order whereof two confiderations concurre; one of offence, the other of defence. The reaching of pikes or horsemens stanes over the front is good for offence, that is to support the corner in the shocke; likewise the thrusting on of those that come behind, serueth with the violence to make them give ground. A reasonable depth is for defence, in as much as it defendeth a Phalange against the indeuour of the enemy to breake it a funder. And is it is a faul: to make it too deepe, fo is it like wife a fault to make it too shallow. Too much depth narroweth the front, and giveth easterneanes to the enemy to incompasse, and oner front it. 1 Too much (ballowneffe on the contrary fide maketh it weake, and ready to be broken, and diffenered by the enemy, and gineth a paffage thorough, and meanes not onely to incompasse the front, but at the same instant also to assault it behind, and so viterly to defeat it. So that the reasons of Leo reach not home, as I faid, there being other canfes of thickning a horfe troupe besides reaching of Launces to the front, and icint thrulime on of the borfe comming behinde. And where Leo peaketh but of A horfe in depth of a troupe, Polybius faith plainely that being ordered for fight, they had for the most part 8 in depth; Polybius a man which lived in the times, whereof Leo Beaketh, and nad beene Generall of the horfe of the Achans. Besides Leo scemeth not a little to differ from himselfe. " For in his seventh Chapter, the writeth after this manner: If \$31. 8 capital there be many horse (that is above twelve thousand) let the depth be of 10. If but few, let it be no more than s. In fquares therefore I bold Alians proportion vest, to double the number of the front, to the number of the flanke; and as the number of the troupe arijeth (for horje troupes are no. alwaies of one number) to inlarge the length of

S.108.10g.

untam, that were lorfes heads

5.70.



but lew, let it be no more than 5. In promote of the finishes, and in the number of the troupe arisets (for horse troupes are no. similes of one number) to inlarge the length of the troupe arisets (for horse troupes are no. similes of one number) to inlarge the length of the

A Rhombe filing but net ranking

The Rare

fanke. And first they place the Leader; then one at his right, and an other at his left hand, so distant, that their Horses heads reach vp to his Florses shoulders, as is

the front, and the depth of the flanke proportionably one to an other.

6 When there are as many horse in length as in depth | I noted before in the ninth Chapter, that there were two squares of equal fides, the one of number, the other of figure; which two squares differ in this, that the one maketh vnequal lites in the hape of the battaile, the other equal. The first at this day, we call a square of men, the other a square of ground. When the number of the sides is equall in length, and depth, it grueth but halfe so much ground in front, as in flanke. Each souldier, if it be a foot bassaile, occupying a foote, and a halfe of ground in front, when he goeib to charge, where in flanke he must have 3 foote. And in a horse troupe 3 foote in front, and double, or (as some (ay) treble as much in flanke. And so are the sides unequall. The even length of flanke and front giveth a like ground to both, and maketh the fides of the figure equall, but the number of the front double to the number of the flanke, whether it be in horse or foote. In foote, because the souldiers in Ranke have but halfe so much distance, as they have in file; In ranke a foote and a balfe, in file three foote. In horse, because the length of the horse is much more, than his breadth, and that length is fully stretched out in flanke, the bredth onely in front.

> Why Rhombes were first brought into vse, and the divers formes of them.

> > CHAP. XIX.

HE forme of the Rhombe seemeth to have beene taken up for the necessarie vie thereof. For the Captaine poffeffing the first place, the next following Har semen are not to ranke with him, but to come a little after on both sides; so that the heads of their Horfes may reach to his horfe shoulders, & on the right, & left hand, and behind, they ought to keepe good distances that too much thronging and clustering together, breed not disorder, whilest some horses being by nature fullen fall a flinging oftentimes, and foule with other; and confidering the beaft is somewhat long of body, that in turning about he wound not the horsemen, that are in fight, whilest with his beeles he aymeth at the Horses next vnto him.

They that falhion Horse into Rhombes, so fashion them, that some Rhombes file, and ranke; some neither file, nor ranke; othersome file, but ranke not; other ranke,

but file not : enery particular whereof standeth thus.

They that would have 2 a Rhombe both file and ranke make the greatest ranke being the middlemost of an uneuen number, as of 11, or 13, or 15. To which they ioyne other rankes before, and behind, euery one conteyning two leffethan the former; as if the greatest ranke confist of 15, the next rankes on either side are to haue but 13, the next on either fide of these 11. and so every one two lesse, till at last you come to 1. And the whole Troope is to consist of 113 horse.

3 The halfe Rhombe is called a wedge being fashioned three square; so that the forme thereof appeareth in the Rhombe.

Other have formed the Rhombe so, that the 4 Horsemen embattailed in that forme, neither file, norranke, conceiuing that turnings and other motions will be more easily performed in this figure, nothing hindering before, behind, or in fanke. And first they place the Leader; then one at his right, and an other at his lest hand, so distant, that their Horses heads reach vp to his Horses shoulders, as

iornel

is faid before. And the first row they make of an vneuen number (as 11). The Leader of the Traope standing in the middes, and 5 other being laid to him backwardly on either side; so that this Ranke conteineth two tides of the Rhombe. Then the reare-Commander is placed directly behind the Leader, and to him are other joyned forwardly on either side, and the number of euery following ranke atter the first, is to be two lesse than the former, and therefore 4 must be added on either side to the reare Commander, and the number of the second ranke be 9. This ranke maketh two sides Parallel to the two former sides of the Rhombe. The third must be 7, and so forward to one. The whole Traope hath in it 36 Horse. 5 Possibise expressions to some by the Greekeletter A. and maketh it to consist of 4 men.

Other Rhombes there are which 6 file, but ranke not, and are fashioned thus: They make a sile of any number, the Captaine of the Troope being File-leader, and the Reare-Commanaer the last of the sile. To both the flankers of this file, they lay two other files, either of them one lessen number, than the first. These they begin to place, euen with the middest of the distances of the first file on both sides, as if there were 10 in the first file, the next files on either side should haue 9 a peece, and the next after them 8 a peece, and still one lessen all therest after-comming files, and so it will fall out, that the Horsemen shall file, but not ranke. This forme is prostable for turning of faces, when need is, from one point of the Rhombe to another. Turning to the right hand is called turning to the fast one point of the ranke, and not to file, it must be ordered thus: The middle and greatest ranke is to be made of an vneuen number, and the rest of the rankes on both sides, laid enen with the distances of this ranke, as was done in the filing troope. So shall you have a Troope that ranketh, but files hot.

Notes.

HE former Chapter bad a generall division of Horse battailes into Rhombes, wedges, and squares; this comprehendeth the sundry sigures of Rhombes, and the manner of framing them. Rhombes therefore are of 4 kindes, some filing, and ranking; some filing, not ranking, some neither siling, not rauking.

1 The heads of the horses reach to the heades of his shoulders] Elian saith, that in a Rhombe the Captaine standards first, and the heads of the next horse reachte his horse shoulders. This rule, if it be taken generally, and meant of all Rhombes, will decine vs. if for two kinde of Rhombs aline, there is nothing more true. The Rhombe nither sling, nor ranking, and the Rhombe sling, not ranking, have the followers horses heads advanced to the shoulders of them, that stand before. But the Rhombe sling and ranking, an it be other ranking not sling, come wholy behind the borse of the Captaine, at the signer shows, and will appear in the verball description of the Rhombe.

A Rhombe both to file and ranke] To make a Rhombe both file and ranke, choice must first be had of an exceuen number for the ranke the middest of the Troupe, where the manner is to begin the Rhombe; which number must metibe be too great, teste the Troupe grow also too great, nor too litle, lest there be in it no strength. Elian giues a 11,13, or 15 for that ranke, and willoth as to begin the frame by placing first the middle ranke, to which the other rankes are to be immed on both sides, the middle men

again, I the middle man of the first ranke in a right lim: of file, and the rest is like fort, early Ranke still decreasing a men, till at last in the front, and reare-angle you come to one. The figure of this kinde of Rhombe I have placed in the precedent Chapter; where in the middle ranke is of II, and the whole troupe of 61, and the borse heads of those that follow reach not to the sormer horses shoulders.

3 The halfe Rhombe is called a wedge I have spoken of wedges before, but nothing of the framing of them. Elian here sheweth how they are framed, when he saith, that the some of them appeare them the Rhombe, and that the halfe Rhombe is a wedge. For as in a Rhombe sling, and ranking, you begin with placing the middle ranke strit, and so proceed adding on both sides ranke to ranke, till you come to one man in the from: So may you have a wedge, saving that to the siis, and greatest ranke you ignee the rest anely on the one side, abating shill in every ranke 2 men, till you come to the point of the from, where the Captaine standards alone. And this was the ordinarie

horse trouve among st the Macedonians, and is described in the next Chapter.

4 That the horsemen neither file nor ranke | The second kinde of Rhombe secified here by Elian is directly opposite to the first. The first both filed, and ranked, this neither fileth, nor ranketh; and is that kinde, which I noted in the last Chapter, to have more curiositie, than ese. For the rest, what is more easie to frame, than they? In which either files, or rankes are laid together; or files alone, or ranks alone. And out of that ioning both in the inward parts of the Rhombe, and the outward (that is the flanks) arise, and are without difficulty figured. In this you must first begin with the outsides, and make two front lines, or fides of the Rhombe; and after adde as many to the Rearc. And then when the 4 fides are framed, and have their place, patch up by peece-meale therest of the body within. Wherein if there be not very large distances left betwixt horse, and horse, especially enery one being laid head to shoulder to an other, it is not possible to convey so many horses within the foure sides, as will make up the full Rhombe. And yet make it up as you will, the trouble is more, than in the rest of the Rhombes. And for the vie, I fee not how it can be greater, than in the rest, what soeuer is alledged for turnings, and other motions. And the more I thinke upon it, the more I am induced to thinke that it was the invention of some Tacticke master (of whom were great plenty among st the Gracians) who feeing that some Rhombes filed, and ranked not; other ranked, bat filednot; other both ranked, and filed, and that the two first were opposite the one against the other, would needs bring in a fourth, neither filing, nor ranking, to make an opposition thewife against the third. But because this kinde also is specified by Elian, let vs see how it is to be framed. William for examples fake would have the Troope to confist of 36 horfe. To put th fe 36 horse in a forme, that shall neither file nor ranke, we are thus to worke. First, we must begin with the two from sides of the Rhombe, and make them of 11 horse, placing them thus: The Leader and Captaine in the point; next him backwardly on each side a horseman, his horse head reaching to the shoulders of the Captaines horse; then on the outward fide of each of these a Horseman, and their horses heads must likewise reach to the shoulders of the next horses before. So must you goe on, till you have in like manmer bestowed 2 a peece more on each side, still opening the two sides of the Rhombe pro-Portionally. This done you have Then are we so fashion the two Reare sides of the Rhombe which Rhombe of 9 horse, splaing them after this will be in this forme.

minuter: The Leutenami in the Keure angle, diportionally. This done you have rectly opposite to, & yet looking toward the Captaine; on either side of him for a ard toward the front 2 Hersemen, their horses shoulders lying even with the head of the Licusenants horse. And after them the other 6; 3 on one side, and 2 on the other in the same proportio. And So have we the other two fides of the Rhombe in this forme. -which being

iogned to the former make the 4 lides of the Rhombe; In the framing whereof 20 of the 36 horse are bestowed. There remaine 16, which are thus to be ordered: Within the K hombe me must at reasonable distance place a horseman behind the Cattaine in aright line, and in the manner as before lay 3 to him on each = fide. The number will amount to 7, and this is the figure I hen another horseman is to be set at the same distance airestly before the Lieutenant, and on ech fide of him two other toward the front, =_ And thefe 12 horse toyned togewhich will be sin all, and in this form = ther, will fashion out a lester Rhombe, comprehended within the sides of the first. So are 22 horse desposed of. The 4 that are left are thus to be ordered. in a right line againe after the Captaine, and at the former distance is another horsema to be set: Then 2, one of the one side & the other of th' other fide of him, their horfes heads reaching to his horfes shoulders thus The horseman left must supply the voide place, standing directly before him, that stood next before the LieuteAnd this is the true description of the Troope neither filing,
nant thus
mor ranking. I have been the longer in describing it because the figure graven is not fully to my minde, no horse head reaching to the shoulders of the borle, that standeth before him.

s Polybius maketh it to consist of 64 men.] Elian tooke the number of 36 horfeto frame this Rhombe, Polybius requireth 64. The number is not materiall, so the forme be observed. If you make it of 64, you are to take 15 horses for the 2 from sides, and 13 for the 2 reare sides, and so in every ranke withinto diminish 2, as you did in the former.

6 Which file, but ranke not] The third kinde of Rhombe fileth, but ranketh not. It is easle to frame. Take what number of horse you please, and make a file, then lay to the distances betwisk horse, and horse of that file on each stanke two other files, each file contensing one lesse with the between the Captaine, and his solutour, and the safe of the horse against the share which is between the Captaine, and his solutour, and therefore the horse against the other spaces successively. In all the paires of files, that follow, and are laid to the slinks, you m: It still diminss a horse a piece, till you come to the points, which have but one either of them. And of this abattem in of one in every sile, but front, and reare, and slinks grow into points, and make a khombe: its of the euch number is every sile, a square buttaile would arise. See the figure. This was the forme the Thessalians sought to see the safe.

Turning to the right hand] The turnings of hor femen and footmen to the right, and left hand, are not termed by the Jamenames. Another difference commeth of the dustrifite of weapons caried on the right, or left fide. The hor femen in his right hand held his fliffe, in the left the raines of his bridie. The armed-foote in his right hand his pike, on the u tolyendate, left himalder his Target. Hence was it that when the hor feman was commanded "to turne to the right hand, they hid him turne to his fliffe; the footeman to the Project.

8 To ranke, and not to file] This is the last kinde of Rhombe, and it ranketh but fileth not. It is made by a contrary way to the former. The filing Rhombe began at the from point, effective properties of proceeded to the standard of the standard points, or proceeded to the standard of the standard proceeded to the standard of the s

The Tacticks

ionned to the former make the 4 sides of the Rhombe; in the framing whereof 20 of the 36 horse are bessewed. There remains 16, a hich are thus to be ordered: Within the khombe we must arresponded editione state a horse frame he had the Cartine in a right line, and in the manner as before lay 3 to him on each

jide. The number will amount to 7, and this is the figure

Then amother haveman is to be let at the same distance an early before the Leuten int, and
on che side of hims two other toward shelpent.

And these 12 horse topical togewhich will be 5 in all, and in this sorm.

Then, will sassion out a lesser

Rhombe, comprehended within the sides of the sirst. So are 32 horse disposed of. The
4 this are less an ethics to be ordered. In a right line sy aine after the Castim, and at the
former distance is another harsended. In a right line sy aine after the Castim, and at the
former distance is another harsended. In a right line sy aine after the Castim, and at the
former distance is another harsended. In a right line sy aine after the Castim, and at the
former distance is superior harsended in the right line of the contents.

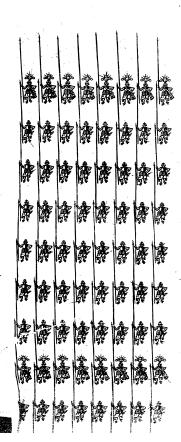
The horsended line is superior has been reaching to the strong eneither siling,
now tanking. I have been the longer in describing it, because
the signer grauen is not sally to my minde, no horse head reaching to the shoulders of the
horse, that silinades before him.

5 Polybius maketh it to consist of 64 men] Alian tooks the number of 36 horfeto frame this Rhombe, Polybius requireth 64. The number is not materiall, so the forms be observed. If you make it of 64, you are to take it y borse for the 2 from sides, and 13 for the 2 reare sides, and so in every ranke within to diminish 2, as you did in the former.

Which file, but anken not] The third kinde of Rhombe filesh, but ranketh not. It is easset a ranketh not. It is easset a ranketh not have a file; then lay to the distances betwith thorse and harse of that sile on each slanke two other files, each file conterping one lesse in number, than the sirs! And the heads of the files are to be laid right against the space which is betwien the Captaine, and the soldwer, and therest of he harse against the other spaces successively. In all the paires of files, that follow, and are laid to the stinks, you miss! still diminish a horse a piece, till you come to the points, which baue but one either of them. And of this abatemn to one invuery sile, both from andreave, and still large the successive sile, a significance but an early sile, as significance but all evould arise. See the sigure. This was the formethe Thessalians sought topics 46 this parents by Edian.

Turning to the tight hand] The turnings of hor femen and footmen to the right, and left hand, are not termed by the fame names. And the difference commeth of the district of weapons cavied on the right, or left file. The hor feman in his right hand held his flaffe, in the left the rames of his bride. The armed foote in his right hand his pike, on the u rolyends, left thought his Tayle. Hence was it, that when the hor feman was commanded to turne to the right hand, they hid him turne to his flaffe; the footenan to his pike. When to the literal when his they hid the hor feman was the feotenan to the Turnes.

S To tanke, and not to file] This is the luft kinde of Rhombe, and it ranketh but fileh not. It is made by a contrary way to the former. The filing Rhombe began at the front point, ever exposit, ever proceeded to the flanks. This beginnesh at the flanks points, ever ecceded to the front and reave. First therefore a ranke is to be laid of what number you list. Alian would have it of an aneuen number, that it will fall out it swell in an even number, as the flower flower through the aneun number, as the flower flower through the aneun number, as the flower flower through the cone less a feece, than the former ranks. Thus continue laying ranks fill towar as the front, and reave, and in curry pair of ranks diminish one a peece, till you come to the points, either of which have but one, namely the Captaine, with a Lieutenins, and the Rhombe will ranke, and not file.



The Countermarche in act

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the Woodle are the transper where I so of the cost, which are then to be ordered. Within the cost of the cost and the cost of the cost of

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the control of the co er the formethe Thestalians fought The third kinde of Rhombe fileth, but ranketh

to some or any man for the property of the pro examines of barforce and forment telectifet, some in the difference comments of the during the feet of the second to the comment of the during the telection of the second second to the second telection of telection of the second telection of the . Lift kmile of Rhombe, and it ranketh but fimer, i he filmg Whombe began at the from 1.7 his ksynneth at the flanke points. & pro-1.1 mise is to be Liid of what number you life. fur it will full out as well in an enen number, Games, the footman to the Target.

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The place of Horsemen in the field the number of an exfault horse troupe, the degrees, and names of the officers of the Horse in general.

CHAP. XX.

H r Troopes of Horfe, as the light-armed, are placed fometime before the Philippe_fometime on the right, or left hand in Janke of the Philippe_fometime in the right, or left hand in Janke of the Philippe_fometime behind the light-armed in the Reare. For our purpole, let them be placed in the Reare, and 'let the first Troope be of 64 men, and the first ranke thereof 15 Horfe The next 13. The next 11; and in all the rest abate 2, till you come to the last which is one.

² He shall carry the Cornet, that standeth in the second ranke next the Ranke-Commander on the left hand. All the Troopes shall be 64 in number. The herfemen inall 4096. If two Troopes are called an Epitadro of 128 hore. Two Epitarchies 4a Tarentinarchy of 256 horse. Two Tarentinarchies 5 an Hipparchy of 524 horse. Two Hipparchies 6 an Epinparchy of 1024 horse. Two Epiparchies 7 a Teles of 2048 horse. Two Teles make 2 an Epitagno of 4096 horse.

Notes.

In liberto of squares and Rhombes, volual bore le statiles among H the Gracians, A way followed the hore leatable of the Macedonian, of which ** £ Lina hash thus afterward: This forme of horse battalle is called a wedge by Tacticks, and it was invented by Philip King of Macedonia, who placed his best men before, that by them the weaker might be held in, and intable do the charge. As in a speer, or fownd, the point whereof, by reason of flar prins quickly piercing maketh way for, and letablin the middle blain year. I have speeken somewhat of the wedge in the world flothey ters. Elian in this Chapter showed the number, and namer of seasoning it, and how many season cought to attent the Phalange, and water whose splites; and degrees.

I Let the frittroupe be of 64 men] The number of the wedge aught to be 64 borfe. For mode: the gaining of an bet Room be that ranked, but filled not symbol such of 15 borfe. Then mail you proceed neward the front, with nother ranked 13, the middle man, filling with the madale man of the first rank, and thereft with bereft. And for you are to continue abotting fill two in every following ranke, till at lift you come to ons, who is the Communder of the Troupe, and finaled in the form of the front.

2. He thallcarty the Cornes? The place of the Cornet is not right fet downe in the figure. It there flanded non the right than 40 the middle mus of the fecand sunter, whereas he floods fland on the left. And you must not account the fecand sunte to be the risk mexits to Communide or to the forth that as filled noth, that was fecand splead offer the first confiding of 15, which was in the Rearc. So that the Cornet is to fland in the mexit such east to the Cornet is to fland in the mexit such east to the Cornet.

But here is no hing faid concerning the different, that ought to be between the fag.

But here is no hing faid concerning the different hings for interest 10.00 that of his different here is 10.00 that of his difference between lot 12.10 the to him difference between lot 12.10 the white his difference has twice 10.00 the hings had been sufferent him to the winter him the little out of other authors. We must would under find then, that we have be different were objected amongst harforms, one for matching, an other for fight.

n Polyblib. 2.

o Leg cap. 17

602 A.

In marching there ought to be 6 foote betweet horse and horse. Elian hash before giuen this distance to the foote. And that horse held it likewise appeareth by Polybius. Who reprehending Cal sthenes for carelefnesse in describing the vattaile betweet Alexander and Darius at Iffos, fecially taxeth this : That he placed thirty thousand lorfe. and thirty thou (and mere naries, in foureteene furlongs of length. whereas the pace was not capeable of halfe the horfe. " His words have this jenje; The order of horfe, when they are prepared for fight, is for the most part 8 in depth. And there is a distance to be left in front betwixt every troupe, to give liberty to wheele and double-wheele. So that one furlong will conteine 800 horse; and 10 furlongs 8000; 4 furlongs 3200: And eleuen thousand, and two hundred Horsewill fill the space of 14 furlongs in length. The words seeme at first somewhat obfoure, being well weighed they will be cleare enough. Polybius faith, that thefe 800 hove were ordered 8 in depto, and that they tooke up a furlong of ground in length. There must be therefore of them a hundred files. For a hundred files of Shorle a peece. will arife to 800 horfe. Compare then thefe 100 files, (the length of the battaile) to the length of a furlong. And feing a furlong conteineth 400 Cubits, or fix hundred foote, enery file fall have a cubits, or 6 foote space betweet them. And so the distance betwixt file and file in a march will be a Cubits, or 6 foote. The other distance of three foote appeareth in . Leo, whose words stand thus: Put the case, that the battaile is of 600 horse in length, and 500 in depth, seing that every horse in length of the battaile possesset three foote in breadth, the number of feete will amount to 1800; And leing againe that every horsein depth possessite 8 foote, there will ause hereof 4000 feete; so that in the foure-fided figure, out of the length of 1800, and the depth of 4000 feete arise 720 Myriades of square feete. And the Perimeter alone of the outward foure fides conteineth 11600 feete. And because of feete make a fathome, and a 100 fathoms make a furlong, and 7 furlongs, and a halfe, make a mile, the whole Perimeter of 11600 feete will come to two mile, and a halfe, and neare a 10th part. In this distance therefore according to the closest order, or shutting, the thirty thousand horse are conteined. But if they fland not so close, you must alter your account according to the thinnesse, and out of the greamesse of place coniecture of the multitude of the people. So Leo. Which place albeit it seeme to require a large interpretation, because many things worth the noting offer themselve: in it; yet for this time I will onely infist woon that, which I first propounded, that is the distance of three foote between horse, and horse, when they goe to charge (for that is the meaning of Leo, when he speaketh of the closest order) which distance is expresty here set downe. And the matter will yet seeme more cleare, if we adde the words of Leo in the Paragraph next, but one, to this, which are thefe: The oldest Tacticks in ordering of foote Battailes give euery man at the first distance foure Cubits; when the battaile is closed two Cubits; when ferred and shut one Cubit. Out of which proportion a Scout may exactly discouer by the quantitie of the place the number, not onely of horse, but of foote also. These oldest Tacticks that Leo mentioneth agree with Alian , as wee have feene. But where the foote have three distances , the horse are to have but two. The open order of fix foote they ought to have, and likewife that of three foote; nearerer they cannot come together, because of the bredth of their horse, and because they are to have roome sufficient for the weilding of their weapons.

All the Troupes are to be in number 64] A Troupe confists of 64 men, and to the Phalange belong 64 Troupes, as the Phalange conteineth 64 Enlignes, or Syntagma's

tagma's of armed foote. To which Enfignes the 64 Troupes of horfe are proportioned. Their place is according to Elian after the light-armed; not on troupe after, or behind an other, but one beside an other, in one front; and that front in a right line, which stretchethout, as long as the Phalange of armed it felfe. Now the files of the armed being 1024 in number, and the number of the horse in the last ranke (which contenneth the length of the Horse-battaile, and (hould answer the number of files) but 960, we must feeke out a proportion to make the length of both equall one to another. The difference then between them in length is 64 men, which in order take up 192 foote. And where there goe foure Phaiangarchies to a fourefold Phalange, and 16 troupes of horse are placed behind enery Phalangarchie, we must divide these 192 foote into four parts; every of which parts will amount to 48 foote, and give to each troupe three foote distance one betwist an other (for distances betwist one troupe, and an other, Polybius holdeth necessary) and so shall the 16 troupes of horse take up as much ground in length as a Phalangarchie. The one conteining 256 files in length which occupy 768 foote of ground, and the other 240 men in the last ranke, which occupy 720 foote. To which adding 48 foote of distance, there ariseth the even number of 768. And so shall the 64 troupes of horse be even in length with the fourefold Phalange.

The names of the Offices, and Commands of the Horse follow, wherein as I before noted in the foote, we must not present too neare the property of words, but take them, as

they have beene vied among Souldiers.

3 Two troupes are called an Epilarchie] One troupe is called Ile, and the Commander an o llarch; for so he is termed before in Elian. Two troupes an Epilarchie, o Cap. 12. and the Commander an Epilarch, as it were a Commander over two lles, troupes. He hath 128 Horsewater his command.

4 A Tarentinarchie] Of Tarentines mention is made in the second Chapter. The name of a Tarentinarchie is not given to this Troupe, because it consisted of Tarentines, but because of likelyhood the Tarentine horsemen had so many in a troupe. Let it be, as it will, it significate here a troupe of 256 Horse.

5 An Hipparchie] Properly signifieth the command of horse, and Xenophon wheth the word Hipparch for the Generall of horse; but Elian, and the Tacticks wse

it for the command of 512 horfe.

6 An Ephipparchie] As it were a command ouer two Hipparchies, or ouer 1024 bor .

7 ATclos] The name of Telos is given both to a body of horse, and to a body of soite. A Merarchie was called by some Telos (faith Elian before) and contented 2048 armed. The Telos of horse contented 2048 horse. So the bodies are equal in number. The word sometimes significable a Command, or Dignitie, from which signification this body, as seemeth, bath the name.

8 Epitagma] The whole body of light-armed was called an Epitagma, which name is given likewife to the whole body of horfe comprizing 4096 horfe. It may be they are both for called, because they are placed betind the Armed, as I noted before. For that

place Elian assigneth unto them.

CHAP. XXI

The diligence to be veed in choice, and exercise of the best formes of Battailes.

CHAP. XXI.

H = Inventions and conceits of those, that lived in old time, about Troopes of Horse are declared, in what forme every one was cast, and for what cause some vsed one forme, some another. Now it behoueth (as in things that carry with them great difference) not carelefly, and negligently, to rely voon the bare precepts; but rather by daily exercise to make tryall of every kinde offigure, and so attayning to the perfect knowledge of that, which is readiest, and of most advantage, to admit and receive it in true fight. For it were great simplicitie, considering in matters of lesse importance men by curious inquiry reachto the exact finding out of many things, herein not to ground vpon perfect and fure experience, before we come to joyne with the enemy.

Troopes may be inlarged or lessened, as it shall seeme convenient to him, that hath the command.

> Of Chariots; the names, and degrees of the Commanders.

> > CHAP. XXII.

Sfor ordering Chariets and Elephants, albeit they are worne out of vie, yet A to make up the measure of this discourse, I will remember their names, as they are fet downe in ancient writers. In the Art of ordering Chariots for the field they call two Chariots a 1 Zygarchy; Two Zygarchies a 2 Zyzygi; Two Zyzygies an 3 Epyzyzygi; Two Epizyzygies an 4 Hartamarchy; Two Hartamarchies a 5 wing; Two mines a 6 Phalange.

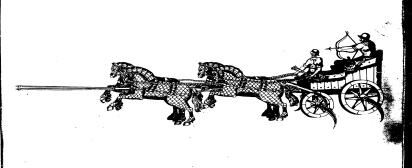
A man may vie many and fundry Phalanges of Chatiots, and yet retaine the fame names in every Phalange. Some have framed fimple Chariots to ferue withall: other some have armed them with Sithes prominent and standing out on

each fide.

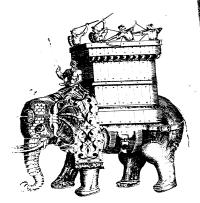
Notes.

THere were two kinde of Chariots weed of ancient time, the one a simple Chariot, the other a Chariot armed with fithes. The first kinde was veed by the Heroes (as ther terme them, that is the renowned Souldiers of old, (uch as were Achilles, Hector, Cycnus, Eneas, Tumus) as appeareth by Homer, Virgil, Ovid, and other Poets. The last was brought in by the Generalls of later times, especially by those that raigned in m Ly decad. Afia, and in Africa. For the " Europeans have counted them fruitlesse, and vaine 4.lib.7.142.B. mockeries, and amonost them you shall hardly finde any mention of Chariots. Elian toucheth them onely, because both they, and Elebhants were in his time growne out of wee. Wherefore I meane likewife to paffe them over fleightly, onely directing the Reader that is destrois to understand their manner of fight to places of Historie, where they are mentioned. And first fee for their

Forme.



d Lindecad. 4. lıb. 7. 141. Polyb.lıb. 5.



Form: Xenoph. Cyrop.lib.6.152. D.E.& 156.B.C. de exped. Cyr.lib.1.264 A.B.Liu.decad.4.lib.7.142. A. Diodor. Sicul. lib.17.596. Quin. Curt. lib.4.119 &lib. 8. 371.

Their violence, Diod. Sicul. lib. 17. 593. Their place in the battaile, Xenoph, Cyrop. lib. 6. 168. C. D. Liu. decad. 4. lib. 7.

142.A. Diod.Sicul. lib. 14.408. Remedies against them, Diodor. Sicul.lib. 17. 592. 593. Xenoph. de exped. Cyr. lib. 1.265. Liu.decad. 4.142. Quint. Curt. lib. 4.141. Plutarch. in Sylla.

I come to the names of the Commands of Chariots.

1 A Zygarchie The command of two Chariots; as it were a yoake of Chariots. A Syzygy | The command ouer two yoakes, as it were, of Chariots soyned toge-

ther : that is ouer 4 Chariots.

3 An Epifyzygy | The command ouer foure yeakes of Chariots, that is ouer eight Chariots.

4 An Harmatarchie | Properly the command of Chariots. But wfed by Ælian for the command of 16 Chariots.

5 A wing] As foote, fo Chariots, and Elephants, had their wings of battaile. To the wing went 32 Chariots. Yet finde I this order of imbattailing Chariots no where, but in Elian. He that will, let him read the places, that I have noted before, for the ordering of Charless. Notwithstanding I can not doubt, that the names given here by Alian, are taken out of ancient writers.

6 A Phalange 1 It confifteth of 64 Chariots ; and wee here fee, that Chariots also had their Phalanges, as well as foote, and Horfe.

Of Elephants; the names, and degrees of their Commanders.

CHAP. XXIII.

Ouching Elephants, he that is Commander of one Elephant is called "Zearcha; Of two 2 Therarcha, and the body a Therarchy; Of foure 3 Epitherarcha, and the body an Epitherarchy; Of eight 4 Ilarcha, and the body an Ilarchy; Of 16 5 Elephantarcha and the body an Elephantarchy; Of 22 & Keratarcha, and the body a Keratarchy. That which confifteth of 64 wee call 7 a Phalange of Elephants, as if a man should name the Commander of both the wings Phalangartha.

Notes.

He wie of Elephants was greater among st the people of Asia and Africa. Those of Europe efteemed them not much. And yet we finde, that they were brought into the field by the Romans also; who first saw Elephants in Italy in the warres, they had against King Pyrrhus. 2 The Indian Elephant was preferred before the African for greatneffe d Lindecad. 4. of body, strength, and courage. Many things are written concerning the service of Ele-polyb.lib.s. phants. But because Alian toucheth no more, then the names of the bodies, and the de- 425. C.D. grees of Commanders, I will only note such things, as I finde concerning them in Histories. Their kinde of armor, and furniture I have taken out of Liuy, and expressed them as meere as I could in figure.

m Lividecad. / 4.lib.7.141.B.

For

The Taclicks

For their piwer, strength, and manner of fight, see Diodor. Sicul. lib.17.609. & hb. 19. 717. Polyb. lib. 1.,5. D. &lib. 5.425. C. Their place in battaile, Diodor. Sicul.lib. 17.685. Arrian.lib. 5.111. Liu. decad.

4.lib. 7.141.B. Appian.in Syriac. 107. Polyb.l. 1.34. D.

The d stance one from an other. Arrian.lib.5.111.

Light armed in the distances betwixt Elephant and Elephant, Diodor. Sicul. lib. 17. 609. & lib. 18.635. & lib 19.685. & 716. Plurarch. in Pytrho.

Remedies ag sinft Elephants, Diodor. Sicul.lib. 18.665. & lib. 19.717. Polyb. l. 1.

42 A. Hirt. de bell. African. 416. Liu.dccad. 3.lib.7.194. C.

Inaue nited before the improprietie of names given to militarie bodies as well in the armed and the light armed foote, as in horfe troupes, and in Chariots. That defect is no leffe in Elephanis. The Commanders and commands of them having names , which were at first large, and improper enough, but afterward made good by wie, and received by the Tucticks as fignificant to expresse the things, for which they were invented. The first is given to him that is to command one Elephant. Who is called

1 Zoarchos] The Commander of a living creature, that is of one Elephant. The

2 Therarchos] A Commander of Beafts: which name is apprepriated to him, that commandethewo Elephants, and the body it selfe is named a Therarchie.

An Epitherarcha | Having the authoritie over the Therarchie and the body is called an Epitherarchie comprizing foure Elephants.

4 An Harch \ As it were the Commander of a troupe; and the body is called an Harchic. He is commonly applied to horse, and signifieth a horse troupe, and llarcha the Captaine. But here Ilarcha signifieth the Commander of 8 Elephants.

5 An Elephantarch \ A Commander of Elephants ; as though the other bodies before mentioned were not of Elephants. Such straights are men often times driven onto in deuising new names for new things, which not withstanding passe afterward and growe familiar by vee. Elephantarcha commandeth 16 Elephants, and the command is called an Elephantarchie.

6 A Keratarch The Commander of a wing, the body a Keratarchie, basing in

it 32 Elephanis. A wing of Chariots had as many.

7 APhalange] This is the greatest body and consisteth of 64 Elephants. But as Chariots may be ordered into many Phalanges, and yet the fame names retained in every one of the Phalanges, fo it is in Elephants. For that armies have bad in them at once ac Polyb.lib 1. boue 64 Elephants appeareth by Histories. Polybius, and Diodor Sicul: teftifie, c the first that the Carthagineans, a the last that King Porus against Alexander had the one 140, the other 130 Elephants in their armies. The same Polybius saith that Ptolomey d Diod. Sat had against Antiochus 73 E ephants in his armie, and Antiochus 102. And Plutarch e Polyb.lib.s. reporteth that Androcottus, King of a part of India, gaue to Seleucus at on time 500 Elephants Alexand.

> The names of military motions expressed in this booke.

> > CHAP. XXIV.

Hus have we let downe in particular the kindes of perfect Forces together with the seuerall names of euery body; Which being premised, it seemeth

Meabole or Faces turned to the note Sand lines or one Turning of Faces to is

TSc first standin

fitto deliuer the words of exercife, that when the Commander, shall will any thing to be done, the Souldier in daily experience acquainted before with the fignification of euery of them, and with the moouing in each figure may easily performe and execute, whatfoeuer is commanded.

There is a motion called Clifis whereofone kinde is to the Pike, the other to the Target; Another is called Metabole; another Epiffrophe; a motter Anaftraphe; another Perifusfimu; another Eeperifus beliefes we lay to file; to ranke; to returne to the fift poflure; to countermarch; to double. Likewife we vie the words Induction; and Deduction to the right, or left hand; a broad-Phalange; a deeperbalange; and writen-fronted Phalange; and Parembole; and Protaxis; and Epitaxis and Profaxis. The fignification of which words I will thortly deliuer. And yet I amnot ignorant, that the precepts of warre are not by all Tatlicks expressed in the same tearmes.

Notes.

A Elian in the Chapters precedent, hath numbred up all kindes of forces, as well foote, as therefore, and Chariots, and Elephants, that in ancient time were accounted necifarie for warre. And hath given them them their armor, and furniture, and diffinguished them into militarie bodies, and imbattailed them, and taught the diffiances, that they ought to hold in fight. It followed now that he speake of motions military; which are the life of a namie, and onely give meanes of victories and without which all preparation of forces is usine, and availeth nothing in the field, nor to the end, for which they were levied. This Chapter them conteins the names of those motions; the following Chapters the particular explication of them. To which we will note, what we finde in ancient writers. For the Genification of the words, I referre them to the severall Chapters, where they are expounded.

Of turning, and double turning the Souldiers faces, as they standembattailed.

CHAP. XXV.

Liss or turning of the face, is the particular motion of every Souldier declining his face either to his Pike, that is to the right hand, or to his Target, that is to the left hand. The vice of it is, when the enemie sheweth himselfe in flanke to encompasse our winges, or else to charge vs: or for some other cause, whereof I will speake in convenient place. 3 Two turnings of the face towards the same lide transferre the sight of the Souldier to the reare of the battaile. And this kinde of motion is called Metabole: being also vice either to the Pike, or to the Target. In the sinft standing the moving of the Souldiers face toward the Pike is called Cliss, the second moving the same way Metabole. For Metabole is the conversion of every mans sace particularly to the place, which was behinded his backe. And the same that Metabole is in ech severall Souldier, the same is Perispasses, or wheeling about in the whole battaile. There are 4 two kinds of Metabole, the one from the enemie, the other to the enemie. Metabole is defined to be a changing of every mans face in particular from the front to the

T& Tim

Teare; or contrariwise. Turning about from the enemie is, when the Souldier Furneth his face twice towards the Pike; To the enemy, when hee turneth twice towards the Target.

Notes.

Our ekinde of Motions are set downe by Elian whereby open any occasion the bat-I taile may be fom what changed : Turning of faces, countermarch, wheeling, and doubling, whereof the first may be veed, in what order socuer your battaile standeth the fecond onely in open order, the third in close order only, the fourth either in close, or o. pen order. Clifis, or turning of faces, whereof this Chapter intreateth, albeit it may bee brought in also in open Order ; Tet is it not don for the most part but in close order ; and then effecially, when none of the other motions have place. The Gracians alwais coneted tobring their file Leaders, that is their best men , to fight. In open Order they chose to countermarch; In close Order, having place, to wh. ele their battaile about, and so turne the face of it against the enemy. If they could doe neither of these, they came to the last remedy, which was turning of faces of every particular manin the battaile.

Clifis, or turning of faces This motion is of lesse paines then any other, but of no lesse importance, or necessitie. In the rest the Phalange changeth the place, or the forme: In this it holdesh both, and yet is ready for any attempt of the enemy. Onely every Souldier in particular turneth his countenance to the right or left hand, as he is commanded. To turne his face to the Pike is to turne to the right hand, because that hand bore the pike, to turne to the Target is to turne to the left hand; because be Maccdonians caried their targets on their left (boulder. For the vie of this turning of Faces, Elian Saith, It hath place when the enemie sheweth himselfe in flanke

2 To incompasse, our wings] Clisis is no more, then bearing faces to the right, or left hand, that is to our wings When then we finde our enemies, to incompasse our right wing, wee turne our faces, and weapons that way to receive him : to the left, when he com. meth to charge vs on that fide. If on both fides, then turne wee the faces of our Phalange balfe to the right , halfe to the left hand ; which is the Antistomus Phalange whereof Ælian speaketh hereaster. Briefely, there is almost none of the marching Phalanges which are afterward discribed but it hathneede of this motion. Besides if upon any occasion the Phalange be to move from any of the flanks, you are only to command Turning a Polycollib.4 of faces to that flanke, and then to lead on. I will give an example, or two. 2 Alexander at Arbela having imbattailed his armie to fight with Darius, had intelligence, that Darius had strowed the ground betwixt the two armies with Calthropes. He commanded therefore the right wing, which himselfe led, to turne faces to the right hand, and follow him, to the end to go round about, and avoide the places, that were fowed with Calthropes. Darius marching against him to the left hand, difioyned his troupes of horfe, and Alexander taking the advantage, and giving in quickly betwixt the spaces, put Darius to flight. If Alexandet had marched on with the right front, behad fallen upon the Calthropes. To avoide them, he weed the benefit of this motion, and turning faces to the right hand he led on , wntill hee hadpaffed the danger, and then turning againe to the first posture, went to charge, and defeated the enemie. b Polyblib 11. An other example is in Polybius, who describing the battaile betwirt Machanidas the Lacedemonian Tyrant, and Philopæmen the Achaan Generall, telleth, that Machanidas having in the left wing put the Achean mercenaries to flight, followed hard the chase. Philopamen as long, as there was hope, indeuoured by all meanes to flay his men: when he faw them vtterly defeated, hee hasted to the right wing, and perceiuing the enemie buile in chase, and the place voide, where the fight had beene, commanding the first Merarchies to turne their faces to the right hand, hee led them on with high speede, not yet breaking the order of their imbattailing. And quickly leazing vpon the forfaken ground, hee both cut betwist them, that gaue chafe, and home, and withall got the advantage of the vpper ground against the left wing of the armed. Whereby hee obtained the victory. If Philopoemen had in this action wfed wheeling of his battaile, which onely was the other motion, which would have ferued his turne, besides the troublesomenesse of the winding about, he should have beene forced to have veed two wheelines, and lo failed of the celerity, which was at that time requisite. Faces were turned in a trice, and he made himfelfe Mafter of the ground, hee defired, before hee could have wheeled once bis battaile.

Two turnings of the Souldiers face | Clifis, or turning faces to the right, or left hand, consisteth of one turning and moueth no further, then the side. If the motion betothereare, it hath two turnings, and is called Metabole, which is defined to bee a changing of every mans face in particular from the front to the reare, or contrariwise. And as wheeling of the whole body carieth about the fronts of the battaile to the reare; So doth Metabole turne the face of every particular Souldier, and maketh him looke from the front to there are. The word properly fignifieth a change, which happeneth berein, when the fouldiers are changed from the front to thereare, or contrariwife. The whe of Metabole is principally to refift the enemy that gives on wpon the reare. * So Pyr- a Plut in Pyrth. thus being entred the Citie Argos with a few, and overpressed with multitude, retired by little and little, and defended himselfe, often turning his and his souldiers faces against the enemy, b So the armie of Cyrus the elder retiring from the walles of Babylon, co. lib. 7.186. often turned about their faces to the left hand, and waited their enemie, who D. were reported to be on foote, and ready to come and charge them. And if the enemy affault both the front, and reare, it hath beene the manner to continue halfe the fouldiers in each file with their faces to the front, and command the other halfe to turne their faces to the reare against the enemie behind. And this forme is called Phalanx Amphistomos described by Elian cap. 38. And sometimes it is veed to speed our march, and preuent the enemie, as was said before of Clifis. Agefilaus made an incursion into b Polyenlib in the Territory of the Thebans, and finding a Trench, and Ramper cast vp by the Agefino. Thebanes for defence of their Countrey, and onely two narrow waies betwist, he cast his armie into a hollow Plinthium, or square, and led it against the left hand paffage, whither all the Thebans flocked for defence. But hee turning about faces from the reare, hasted away, and gained the other passage, where no man was present to resist, and entring spoiled the Country; and returned without impenchment.

4 There are two kinde of Metaboles] Before were rehearfed two kinde of turnings of faces about, one to the pike, the other to the target, here is added two more, one from the enemy and the other against the enemie; which are all one indeed, and differ onely in name. What the true meaning of these turnings should be, I am in doubt, Elian expounding them one way, Suidas another. Elian esteemes them by the right, and left hand, Suidas, albeit he have that signification also, esteemeth them by the front and reare. Therefore Suidas defines the turning from the enemie to bee a turning about, toward the reare : that against the enemie, a turning about toward the front. Ælian would have the first to containe two turnings toward the right hand, the second two. turnings toward the left. I for my part Ment rather to Alian. For touching the turnings of Suidas, I cannot yet understand, why turning toward the reare should be a turning from the enemie; Or toward the front a turning to the enemie : Confidering that whether

whether secure you turns faces, the enemie is imagined to be there is faces and weapons being to be eopposed alwaies against the enemie, which is the one; and of turning. Alians opinion seemeth to have more probability in it, at least if I concident the right reason. For I take it thus: I has seeing the Gracians (as the Romans tikewise) were Targetieres, and caried their targets on their less side and in sight advanced that side alwaies neeres it the enemie, which they sought to couter with their targets, that therefore the turning about to the enemy, was called turning to the Targets as contravity turning to the right side, on which side the Pike was caried, and which being naked of such defenssive arms was called a Linus aperils. I the open side, and therefore further removed from the enemy, might for the sime cause be tearmed turning from the enemy. So that I take turning about to the enemy, and turning about to the target to be all one, as also turning about from the enemy, and turning about to the Pike, how some the name differ. This is my consecture, which I shall imades to the target to be all one, as also turning about to consecture, which I shall imades to the target to be all one, as also turning about to the consequence.

gine to be true, till I finde some man, that will bee pleased to give me a more probable rea-

Jon: 1 only adde now the words of command in this motion.

Faces to the right hand.
Faces to the ich hand.
Faces about, to the right or left hand.
The figure speweth the manner.

Of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

CHAP. XXVI.

Pistrophe (or wheeling) is when the battaile being so closed, that noman can turne, or twice turne his face by reason of the neereness of man to man, it wholy, and sointly wheeleth (as a ship, or some other body caried about) the order thereof remaining vndissoluted. When the wheeling is to the Pike, we warme the right-corner-file-leader to stand full (as it were the hooke of a door hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target 1 tray be thus defined: Epstrophe is, when shutting the battaile by gathering close the Followers, and Side-men, we turne it wholy (as the body of a man) counterface the Pike, or Target, it being caried about the corner-file-leader, as about a Certer, and, changing the place of the front, transferre the countenance of the souldier to the right, or left hand the followers and sidemen every one remayning in sile and ranke as before. How it is to be one I will shew hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it beganne to wheele. Perispsymum, or wheeling about, is the motion of the battaile in two wheelings, to that thereby the front commeth to the place of the reare. ** Experisps store the wheeling, is the motion of the battaile in three wheelings, to as, when it turneth to the Pike, the front commeth about to the left stanke; when to the Target, it commeth about to the right stanke.

Notes.

Notes.

This Chipter hath a diners kinde of turning from the other mentioned in the last observer, which for distinction sake, is called Epistrophe, or wheeling. The other turned no more, theen the fueldiers sakes, enery man yet keeping the same growth, he had before. This wheeles the whole body, and changeth the place of the Phalange either to the right, or less thand, or to the reare. And as there was in the turning of tages aparticular motion of euery particular soulder to the right, or less thand, called Chilis, and an other turning about called Metabole: so is there in this a generall wheeling of the whole body to the right, or less hand, called Epistrophe, and an other wheeling about to the reare called Petisspalmos. But let we heare the description.

Epistrophe (or wheeling) is, when the Battaile | Shortly Epistrophe is no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still then all the rest keeping their files and rankes closed, to turne to the same hand wintly about the Corner-fie-leader circle wife, who is to move by little, and little, till he have turned bis face to that fide, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the (ame hand, they are to stand still: The words of the definition of Epistrophe (or whieling) are plaine enough in Alian ; Incede we feno exposition. Now because in exercise we relie not upon one forme of motion alone, but acquaint our fouldiers with all the kindes; It is necessarie to bring the body againe to the first place, to the end we may proceede in the reft. This reducing to the first Posture is called Anastrophe, by which the battaile returneth, but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee that (ee hereafter how it is done. To bring the battaile to have the front, where the reare was, you must vie a double wheeling. And that is called Perispalmos. Which commeth of two Epiftrophes, and is made either to the right, or left hand. Onely it must bee obferued, that if the Perispasmos (or wheeling about) be to the right hand, the Anastrophe (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Experisations I could never hither to conceive any who of attreble wheeing (for so Elian takes the word) wheeles Perisations were first made, and the battaile had the front already brought to the rare, and so an Epistrophe added from the rease to the same hand. Otherwise feeing that one wheeling is somer made, then two, and therefore some then three, I see no neede of three wheelings, esticially seeing we may doe that, wee desire with one. For example, let we wheele our battail: thrice to the right hand, the fromt will come to be in the place of the left sinke. The same will be personned as well with one whe ling to the left hand. Et stusted that per plura, quod potts sier pruciota, especially in matter of warre, where the least moment of time often exiech the whole businesses. The like may be said of te oper is passiness to be left hand.

The refe of the motions of wheeling, and double wheeling, is, when the battaile being cloted, and the entiry comming to a flast you in any citier one place, then the front, you feeke to bring the best ment o fight. For if you be to be charged in two places at once, or more, wheeling helpes little; except it be to turne the front to one enemy, and in that case your enerly shifts; to turne faces against them, that come to charge, on what side source they come. Examples of these two motions, I mean Epistrophe, and Perispassings of the visions in carry Greeke tisserie. Of which I will represent one, or two, especially of the

whether foeuer you turne taces, the enemie is imagined to be there s faces and weapons being to bee opposed alwaies against the enimie, which is the onely end of turning. Alians opinion seemeth to have more probability in it, at least if I conceive the right reason. For I take it thus: That feeing the Græcians (as the Romans likewife) were Targetieres, and caried their targets on their left side, and in sight advanced that side alwaies neerest the enemie, which they fought to couer with their targets, that therefore the turning about to the enemy, was called turning to the Target; as contrarily turning to the right side, on which fide the Pike was caried, and which being naked of fuch defensive armes n as called 2 Laus apenu. 2 the open fide, and therefore further removed from the enemy, might for the same cause be tearmed turning from the enemy. So that Itake turning about to the enemy, and turning about to the turget to be all one, as also turning about from the enemy, and turning about to the Pike, how oener the name differ. This is my coniecture, which I fall imagine to be true, till I finde some man, that will bee pleased to give me a more probable reafon : I only adde now the words of command in this motion.

Faces to the right hand. Faces to the ett hand. As you were. Faces about, to the right or left hand. The figure sheweth the manner.

of wheeling, double, and treble-wheeling of the battaile, and returning to the first posture.

CHAP. XXVI.

* T Pistrophe (or wheeling) is when the battaile being so closed, that no man Can turne, or twice turne his face by reason of the necrenesse of man to man, it wholy, and iointly wheeleth (as a ship, or some other body caried about) the order thereof remaining undiffolised. When the wheeling is to the Pike, we warne the right-corner-file-leader to ftand ftill (as it were the hooke of a doore hinge) and the rest of the battaile proceeding forward to turne about the same file-Leader like the doore. In the same manner is wheeling to the Target ; It may be thus defined : Epistrophe is, when shutting the battaile by gathering close the Followers, and Side-men, we turne it wholy (as the body of a man) toward the Pike, or Target, it being caried about the corner-file-leader, as about a Center, and, changing the place of the front, transferre the countenance of the fouldier to the right, or left hand; the followers and fidemen every one remayning in file and ranke as before. How it is to be done I will shew hereafter.

Anastrophe, or returning to the first posture, is the restoring of the wheeling to the place, where the battaile first stood close, before it beganne to wheele. Perifas(mos, or wheeling about, is the motion of the battaile in two wheelings, fo that thereby the front commeth to the place of the reare. 2 Esperishas mos, or treble wheeling, is the motion of the battaile in three wheelings, fo as, when it turneth to the Pike, the front commeth about to the left flanke; when to the Target, it commeth about to the right flanke.

Notes.

Notes.

This Chipter hath a diners kinde of turning from the other mentioned in the last Chapter, which for distinction sake, is called Epistrophe, or wheeling. The other turned no more, then the fouldiers faces, enery man yet keeping the fame grounds he had before. This wheeles the whole body, and changeth the place of the Phalange either to the right, or left band, or to the reare. And as there was in the turning of tages a particular motion of every particular fouldier to the right, or left hand, called Cluis. and an other turning about called Metabole : fo is there in this a generall wheeling of the whole body to the right, or left hand, called Epistrophe, and an other wheeling about to the reare called Perispasmos. But let vs heare the description.

Epistrophe (or wheeling) is, when the Battaile | Shortly Epistrophe & no more, then the first turning of the battaile to the right or left hand. In doing whereof first the files must be closed to the hand, you meane to wheele, then the rankes. Then the corner file-Leader on the same hand is to stand still then all the rest keeping their files and rankes closed to turne to the same hand wintly about the Corner-fie-leader circle wife, who is to move by little, and little, till he have turned his face to that fide, which was intended. And when the first ranke is even with him, and the rest wheeled enough to the (ame hand, they are to stand still: The words of the definition of Epistrophe (or whieling) areplaine enough in Alian; Incede veno exposition. Now because in exercise we relie not upon one forme of motion alone, but acquaint our fou diers with all the kindes: It is necessarie to bring the body againe to the first place, to the end we may proceede in the reft. This reducing to the first Posture is called Anastrophe, by which the battaile returneth but by a contrary hand, to that, to which the Epistrophe was made. And but for changing the hand the wheeling backe againe is all one with the wheeling forward. Wee shall see hereafter how it is done. To bring the battaile to have the front, where the reare was, you must vie a double wheeling. And that is called Perispalmos. Which commeth of two Epiftrophes, and is made either to the right, or left hand. Onely it must be obferued, that if the Perispasmos (or wheeling about) be to the right hand, the Anastrophe (or reducing to the first posture) must be to the left. Contrarie it is if the Perispasmos were to the right hand.

2 Ecperispasmos] I could never hitherto conceine any wse of a treble whee ing (for So Elian takes the word) whiesse a Perispasinos were first made, and the battaile had the front already brought to the reare, and (o an Epistrophe added from the reare to the Same hand. Otherwise feeing that one wheeling is sooner made, then two, and therefore Sconer then three, I fee no neede of three wheelings, effecially feeing we may doe that, wee desire with one. For example, let vs wheele our battail: thrice to the right hand, the front will come to be in the place of the left flinke. The same will be performed as well with one wh eling to the left hand. Et fruftra fit per plura, quod poteft fieri per pauciora, especially in matter of warre, where the least moment of time often carreth the whole bufineffe. The like may be faid of + cperispasmos to the left hand.

The vie of the motions of wheeling, and double wheeling, is, when the battaile b.ing closed, and the entmy comming to affault you in any other one place, then the front, you Seeke to bring the best men to fight. For if you be to be chirged in two places at once, or more, wheeling helpes little; except it be to turne the front to one enemy, and in that cafe your onely hift is, to turne faces against them, that come to charge, on what side foeuer they come. Examples of these two motions, I meane Epistrophe, and Perispasmos meete To almost in every Greeke Historie. Of which I will represent one, or two, especially of the latter; the rather because practise given both light, and life to precepts. 2 Plutarch recounteth, that after King Pyrrhus, had in vaine affaulted Sparta, he was invited by an Arginan named Aristam to receiue Argos into his protection, and that hee marched thitherward with his armie. Ariem the king of Lacedemonia laying ambushes for him, and taking the principall streights, by which he was to passe, charged his reare, wherein the Galatians and Molosians were. When Pyrrbus heard the bruite and noise, he sent his sonne Ptolomy with the band of Companions to aide, himselse with all speede marching out of the streights, led on his armie. The medly being sharpe about Ptolomy, and the chosen Lacedemonians commanded by Eualeus standing close to their busines, Oroefus a Candiot of Aptera, valiant of his hands, and swift of foote, running croffe against the young Prince gaue him a deadly stroke and overthrew him. His fall made the rest to flie. And the Lacedemonians having the victorie, and following the chale came into the Champian ground still killing but not remembring they were not followed with armedfoot. Vpon whom Pyrrhus, having even then heard of, and being much mooved with the death of his sonne, wheeled about the Molossian horsemen. And himselse first advancing vpon the spurre imbrued himselfe with the slaughter of Lacedemonians. He alwaies seemed mighty, and terrible in armes; but then he exceeded himselfe in daring and valor. For turning his Hosse vpon Eualeus who shunning him, shifted aside, and with all strooke at his bridle hand as he passed by, and wanted but little of cutting it off. But miffing the hand, he light vpon the raines, and carned them quite a funder. Pyrrhus with all strooke him thorough the body with his Launce. Then leaping from his horse, and fighting a foote, hee cut in pieces the chosen Lacedemenians, that fought to recouer the body of Eualeus. This was the fight that Pyrrhus made by wheeling about his Horsemen against the Lacedemonians, that followed vpon his Reare. Another example of Wheeling about is reported by Polybius, and it is of Amilear Annibals father, this is the hiftery. The mercenary fouldiers of the Carthaginians revolted from them, and overthrew some of their Generalls, and shut them vp within the Citie of Carthage, possessing both other fireights, that led into the Countrey, and also a bridge laide ouer a river called Macar, which river was not passable, but by that Bridge. Befides, they built a City for defence of that Bridge. Amilear feeking to diflodge the enemie from that Bridge, and having no way to come at them conveniently; observed, that when certaine windes blew, the mouth of the river toward the sea was commonly filled up with fand, and would give passage sufficient for his armie. Finding then a fit time, hee put ouer his army in the night, and before day, or ere any manknew of it, made himselfe Master of the passage; and prefently led against them, that held the bridge. Spendius (hee was one of the chiefe Rebells) hearing thereof, advanced to meete Amilear in the plaine, and both ten thousand from the City at the bridge foote, and fifteen thousand more from Tica, came out one to aide another, thinking to wrappe in the Carthaginians betweene them; who were not about ten thousand Souldiers of all forts, and 70 Elephants. Amilear led on his armie. Before were the Elephants, the horse, and light armed followed next, the armed foote came last. And perceiuing the enemie, that followed his Reare, pressed hard vpon him, he commanded his whole armie to turne about. Those that were in the Vangard of the march hee willed to returne to him with speede; the other that at first had the reare, hee wheeled about, and straight opposed against the enemy. The Lybians and mercenaries imagining the Carthaginians fled for feare, fell youn them diforderly, and boldly came to hands. But when they faw the Horsemen, being now turned about, and come vp neere to the foote, and aiready put in order, make a stand, they themfelues, by reason they looked for nothing lesse, fell into a feare, turning their backes fled presently, as before they gaue on vnaduisedly, and straglingly. And fome of them falling vpon their owne people, that were comming on wrought both theirs, and their owne destructions : othersome were trampled your, and trode to death, by the horse, and Elephants, that followed the chase. Thus farre Polybius. And thus farre of Wheelings. The figure, and words of command are refernedfor the 32 Chapter, where the manner of wheelings, and returning to the first posture is let downe.

> Of filing, ranking, and restoring to the first posture.

> > CHAP. XXVII.

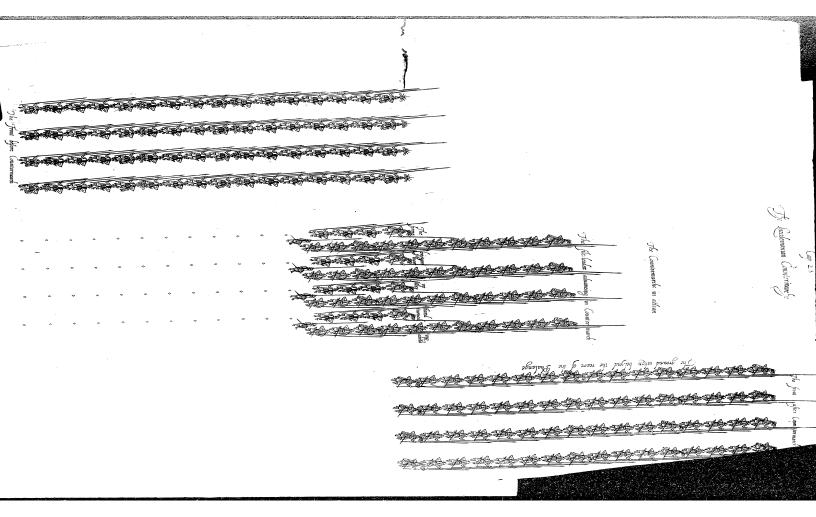
O file is, when every particular man keeping equal distance from other standeth in his owne file lineally betwixt the file-Leader and bringer-vp. To ranke is, to be in a right line even with his sidemen in the length of the battaile. I To reftore to the first posture is, to bring the fight of the Souldier to the fame aspect, he had before the first turning. As if his face were at first towardes the enemy, being commanded to turne towards the Pike, and thence to returne to his first posture, hee is againe to returne his face toward the enemy.

Notes.

F filing, and ranking enough is spoken before. I To restore to the first posture | This motion differeth from Anastrophe before specified. For Anastrophe bringeth backe againe the whole body to the first place after a Wh eling : This the Souldiers faces particularly to the first aspect. So that this is vsed after the making of an Anastrophe. For alwaies in motions it is requisite, that the Souldiers faces moue forward. To mone backeward hath many inconveniences, of flumblings upon wneuen ground, or stones, or pittes, or stubbes, or such like. Which is the cause that in Anastrophe after aWheeling, Elian willeth, that the Souldiers turne their faces the contrarie way first, then moue on, till they have recovered their first ground, then open rankes, and files, and lastly to restore to the first aspect. And as it differeth from Anastrophe fo differeth it likewise from Metabole. Metabole only turned faces about, this fettein the Souldier in his former posture, not onely for his face, but for bis armes, also, which are ordered as at first. The wordes wherein this motion is expresfedby Elian are Eporthon apodounai, and Eis orthon apocatastelai, which is interpreted by Gaza in arrectum reddere to restore up right, by Arcerius rectum reddere toreftore right, and so the words sound. Alian interpreteth it to fet againe the Souldiers light in the same aspect in which it stood at first : as if being placed with his face against the enemy he be commanded to turne his face to the Pike, and then againe to restore his face to his first vosture, he must returne, and set his face against the enemy. Alian therefore referreth it to the fight, he first had, which if it bee the right meaning, how can it

a Paufan in Aiticis 43. b Paulin, in Corinth 89. e Paulan in Corinto. 37.

be wpright, or right, more in that , then in any other posture. For the Souldier not onely in front, but in flanke, and in the reare carrieth himselfe opright, or right. I doubt not, but this it may be applied to the vpright standing of men, as appeareth by fundry places of Paulanias : Who reberfeth, that Mineruas Image fet a in the Temple Parthenion standeth upright, orthon esti, and in another place, that in Corinth b in the Temple Pantheon, there were two Images of Mercurie Standing opright, Ortha, and that in the Temple of Fortune the image of Fortune was carned of Parian-stone, and stood vpright; Orthon: and that in Neptunes Temple situate in the Corinthian Ifthmus. the images of Amphicrite and Neptune stand in a Chariot, and the boy Palemon voright woon a Dolphin, Orthos. In all which places Orthos designeth the fite of men. But here, as Itake, it cannot be so applied. Because in enery motion, not onely in this, the men fland vpright. How then canabey bereflored to their flanding vpright , when they doe it already. Itake the originall of the appellation to come from another cause, and that is from the ordering of the Pike. For when the battaile is first set in the field enery Souldier standes with bis Pike ordered, that is vpright. For to order a pike is to fet the butt end on the ground before the Souldier somewhat wide of his right foote, and to hold it viright with the right hand borne even with the shoulder. But when you beginne, or continue any motion, the minner is to advance, or to shoulder the Pike, and (o to proceede. But being commanded to returne to the first posture, it must be ordered againe. So that the first posture of an armed m:n is to stand with his pike vptight. And after many motions and windings, he at last returneth to the same posture, which Itake the command of Ep'orthon apodounal to lignifie. Now that I may not feeme to relie upon a probable consecture alone, I will bring witneffe for the confirmation d Diod. Sicul. of my opinion. It is reported by d Diodorus Siculus, that Agefilaus the Lacedelib. 15. 473. monian King with an armie of eighteen thousand foote, and fifteen hundred horse, inuaded Baotia. The Athenians before hearing of Agesilaus comming had fent five thousand foote, and 200 horse to aide the Thebans, who gathering their armie together seized vpon a long narrow hill distant 20 furlongs from the City; And making the hard accesse to the place a kinde of fortification against the enemie, they there waited his comming, fearing to hazard upon euen ground in regard of the renowne, and glory of Agefilam. Agefilam, having imbattailed his troupes, led them against the Bastians; and approching neere, sent his light armed to found their disposition to fight, which being easily repulsed by the Thebans by the aduanage of the higher ground, hee aduanced the rest of his forces being imbattailed in such manner, as might give greatest terror. Chabrias the Athenian willed his Souldiers to a waite the enemy contemptuoufly both keeping their first array, and their Targets at their knees, and continuing their Pikes apright ordered; who when they jointly as youn a word given, did as they were commanded. Agefilaus both wondering at the good order, and at the affured fashion of the enemy thought it not fit to ftriue with vnequall ground, and by forcing them to fight, to compell them to be valiant, whether they would, or no. Hitherto Diodor Sicul. of the Strategem of Chabrias against Agelilaus, which consisted in the contempt of Ageillaus, and all bis forces : First in not stirring one foote, to meete . he enemy, then in keeping the array they held before; further in fincking their Targets to their knees; Lastly in continuing the former order of their Pikes, that is not making readyto charge, but remaining with their Pikes ordered, as they were at first. Ageulaus advancing his armie thought to firite a feare into his enemie; Chaprias trusting to the firenath of the place, formed the Braudo of Agefilaus, conceiuing, he would not be fo hardy to adventure the fight upon fo great an inequality of ground. He therfore willeth the



diers not to alter their posture, but to continue as they were. The words concerning the Pike are: En ortho to dorati menein. That is to continue their pikes vorigit (En ortho) Now whether the same be the posture, that the Tadicks describe, when they Beake or restoring Ep' ortho, vpright, I referre to the judgement of the Reader. 2 Po- b Polvenliba. lianus remembring this Stratagem wheth Comewhat different words, and yet confenteth in Ageliao. in meaning. Chabrias (aith be, commanded his Souldiers not to runne out againft the enemy, but quietly to ftand ftill holding their pikes before vpright, and their Targets before their knees which they were wont to doe, when they would a little ease themselves of the weight of their Targets. Where Diodore, but en ortho to dorati menein, to continue their Pikes vpright. Polienus bath protinomenous ta dorata ortha, holding before them their Pikes vpright. But both have pikes vpright, and Diodorus his Continue hath relation to the Posture they were in, which Chabrias would not have them to alter: Polienus bis hold before to that they were commanded 19 doe. In ordering of Pikes at this day I have showed, that the Souldiers hold them upright, the but end fet on the ground before, and somewhat wide of their right foot. * Amilius Probus reciting this hiftorie perwerteth the Stratagem: He faith that Cha. b Amil Prob. brias forbad the Phalange to giue backe, and taught his Souldiers to receiue the in Chabria. enemies charge kneeling with one knee, the other fet against the Target, and with the Pike abased. Wherein hee quite dissenteth from Diodore, and Polien. Diodore (aith the command was to keepe their array; Polienus not to runne forward, but quietly to ftand still; Probus not to give backe. Probus faith, they should kneele with one knee, and reft against the Target with the other; Diodore that they should hold their Targets sunke to their knees; Polienus that they should carry their Targets before at their knees. Probus that they (bould abase, and charge their Pikes; Diodore that they flould continue, and order them vpright; Polien that they Should hold their Pikes vpright. So that Diodore and Polien agree, and expound one another : Amilius Probus bringing in a new historie dissenteth, as I faid, from the other two ; especially in making that to be a forme of fight prescribed by Chabrias (a simple forme to receive the charge upon their knees) which was a contempt, to flow how little, especially in that strength of ground, he regarded Agesilaus; which contempt also made Agesilaus retire, not doubting but it proceeded from a great assurance of the enemy. Therfore as I faid I take these words ep orthon apodounai not only to appertaine to the aspect of the Souldier, but also (and that much rather) to the erection , and ordering of Pikes.

Of Countermarches, and the divers kindes thereof, with the manner how they are to be made.

CHAP. XXVIII.

Here are two forts of Countermarches, one by file, the other by ranke; each of the fe againe is divided into three kindes. The first called the Macedonian: The steer of the Lacedonian: The third the Choraan, which is also the Parlian, and the Cretan. The Macedonian is that, which leaving the ground, it first had, taketh in liew thereof the ground, which was before the front of the Phalange, and turneth the aspect of the Souldier backeward [where before it was forward.]

The Front before Countermord

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2 The

2 The Lacedemonian is that, which leaving likewife the ground it first had, taketh in freed thereof, the ground which was behinde the Reare of the Phalange, and turneth also the face of the Souldier the contrary way.

3 The Persian is the Cretan, and Chorsan: This keepeth the same ground of the Phalinge, euery Souldier taking another place for that, he had, the file-Leader the place of Bringer-vp, and so the rest in order; and turneth also the face of the

Souldier the contrary way.

4. Countermarches by ranke are made, when a man would transferre the winges into the place of the Sections; and the Sections into the place of the wings, to the end to strengthen the middest of the battaile. Likewise the right hand parts into the left hand parts, and the left hand parts into the right hand parts. They that seare to countermarch the Phalange in grosse the enemy being at hand, doe it by Syntagmaes.

I will now fet downe, in what manner countermarches ought to be made.

The Micedonian countermarch by file is faid to be, when the file-leader turneth about his face, and all the reft with the Bringer-vp go against him on the right, or left hand, and passing on to the ground before the front of the Phalange place themselves in order one after an other, according as the sile-Leader himselfe hart turned his face. Therefore it maketh shew to the enemy appearing in the Rearc, of running away: Or it is when the sile-Leader turneth about his face, and the reft passing by him on the right or left hand place themselves orderly one behinde another.

But the Lacedemonian is, when the Bringer-vp turneth his face about, and all the reft turning also their faces, and proceeding forward together with their file-leader order themselues proportionably in the ground, which was behinde the Reare of the Phalange. Wherefore to the enemy appearing behinde, it makes a semblance of falling on. Againe the Lacedemonian is, when the sile-Leader turning his sace about to the Pike, or Target transferreth the whole sile to another place equall to the first; and the rest following stand, as before, behinde him. Or else, when the Bringer-vp turneth his sace about, and hee, that stood next before him, passing by on the right or left hand, is placed againe next before him, and the rest following are placed one before another in their former order till the sile-Leader be the first.

The Cherean is, when the file-Leader turning about toward the Pike, or Target, precedeth the file, and the reft follow, till the file-Leader have the place of the Bringer-vp, and the Bringer-vp the place of the file-Leader. And these are the Countermarches by file.

In the same manner are Countermarches made by ranke incase a man would countermarch by ranke. For every ranke Countermarching either keepeth the same ground, or changeth the right hand place, or else the left hand place, of the battaile, one of which must needes fall out, and never faileth.

Notes.

The two former motions are performed, one in close Order, the other in all Orders; Epistrophe when the battaile is sout foot lose, that (as Ælian saith) aman can turne his face neither the one way, nor the other. Cliss in open Order, Order, and close Order. The two of following motions, Countermarch, and Doubling, one is done in open Order, the other for the most part in open order too; and yet sometimes in Order, and close close of the other for the most part in open order too; and yet sometimes in Order, and close close of the other for the most part in open order too; and yet sometimes in Order, and close close of the other for the most part in open order too; and yet sometimes in Order, and close of the other for the

close order; as we shall see in due place. This Chapter handleib Countermarches, the next Doublings. Countermarch is a motion, whereby every souldier marching after other, changeth his front for the reare, or one flancke for the other. For there are two kindes of Countermarches, one by sile, and the other by ranke. And each staced monian; the third the Chorean, or Cretan. A Countermarch by file is, when every souldier followeth his Leader of the same sile; By ranke, when every souldier followeth his Leader of the same sile; By ranke, when every souldier solloweth his sideman of the same ranke in the Countermarch.

1 The Macedonian Countermarch] in this Countermarch, the purpose of the Commander is to turne the front of his battaile against the enemy that sheweth himselfe in the Reare; and withall to take the ground that lyeth before the front of the Phalange. It is called the Macedonian Countermarch (Jaith Elian) because the Macedonians were the inventers of it. Which of the Macedonians he telleth not, but excludeth Philip, and Alexander, who both vfed the Lacedemonian Countermarch. And before their times I have not read of any warlike Kings of Macedonia The manner of it is this; First all the File-leaders turne their faces about either to the right or left hand; then the next ranke passeth thorough by them on the same hand; and being cometo their distances, place themselves directly behind their File-leaders, and then turne about their faces the fame way. Ana so the third ranke after them, and the fourth, and all the rest, till the Bringers-vo be last, and have taken the reare of the battaile againe, and turned about their faces. The figure expressed not well the action. For in it the Bringers-up begin fir & to countermarch, which according to Elian should move last. Tet may this Countermarch be done, as the figure is. But I take Elians way to be easter, and readier. And it may be also, that the Countermarch expressed in the sigure is lost in the text. For one of the Lacedemonian Countermarches, which proceedesh the contrary way, beginneth the motion with the File-leaders, as this doth with the Bringers-up, as wee shall Straight fee.

2 The Lacedemonian countermarch] In this Countermarch the proceeding is contrary to that of the former; that tooke the ground before the Phalange, this takes the ground after. In that the mouing was from the Reare to the front, in this from the front to the reare. This is the invention of the Lacedemonians. Alian describeth it to be done in two manners: One, when the Bringers-up first turne about their faces, and the next See Leo cap.13. ranke likewise turning faces beginneth the Countermarch, and every manthereof placeth \$ 95. himselfe directly before his Bringer-up, and the third doe the like; and so the rest, till the ranke of the File-leaders come to be first: The other, when the File-leaders begin the Countermarch, and every one in their files follow them orderly. The figure expresses this laft. Elian preferreth the Lacedemonian Countermarch before the Macedonian : because in it the souldiers seeme to fall on, and got to the charge; where in the Macedonian they Seeme to flie. There are not with standing times, when it is better to wee the Macedonian. As in case you meane to march on, and not to sight with the enemy, except you becompelled: Or elfe you seeke to gaine some ground of advantage. For the Macedonian continueth fill the march, and stayeth not; the Lacedemonian returneth upon the enemy, and so looseth ground in marching. Agesilaus after victorie gotten against the Argives, against whom he stood in the right winge, hearing that the Thebans had beaten the Orchomenians in the left winge, wied the Lacedemonian Countermarch against them. The words of x Xenophon found thus: Here the strangers were about to crowne x Xenophist. Agestlaus (thinking he had got the victory) when newes was brought that the grac. lb.4. Thebans, after they had broken the Orchomenians, had forced a passage as farre as \$19.C. the baggage. Then Agestlaus, countermarching his Phalange, led against them.

Γhe

grzc :b 6.

The Thebans perceiuing their Confederates were fled up to the mount Helicon, clofed their troupes together, as neare as they could, feeking to open a way by force, and to get vp vnto them. Azefit us albeit he might by giving way to the formost haue followed them at heeles, and charged the reare, yet did he it not, but met the Thebans front to front. Thus encountring, and clashing their Targets together they fought, thrust on, killed, and were killed. In fine some of the Thebans. broke thorough to Helicon; other some, as they sought to escape, were left dead on the place. Agefilaus here followed the chase wpon the Argives toward the mount Helicon: The Thebans woon the Orchomenians the contrary way towards the enemies Campe. The Thebans leing their confederates fled to the mount Helicon returned toward them, Agefilaus countermarched to meete them met them, and fought with them. For the Countermarch he weed, I make account it was the Lacedemonian, him elfe being a Lacedemonian. And he veed it to meet the Thebans brauely in front. The same Agefilaus, after he had by night incamped in a peece of ground behind Mantinga incom-Kenoph hift. passed about with mountaines, perceiuing the next morning, that the Mantineans gathered together vpon the toppes; that lay right ouer the head of his Rearegard, determined to lead his Armie out of the place with all speed. Now if himselfe should lead, he feared the enemy would give vpon his Reare. Therefore standing fill, and turning his armes against the enemy, he commanded the last of the Phalange to march backe againe from the Reare, and come vp to him; and fo at once he brought his Armie out of the streights, and made it by little, and little stronger. When the Phalange was thus doubled, he proceeded in that order into the Champeigne, & there againe reduced the depth of the armed foote to o or 10 men in every file. This place of Xenophon, if it be not corrupted, is very obfcure. And I cannot tell whether to take it for doubling of the front, or the Macedonian countermarch. The words make for a doubling. For Xenophon faith plainely, the Phalange was doubled. Besides he addeth, it was made by little and little stronger; which could not be done with a Countermarch. And that a deepe Phalange, or Hearle, (fuch as this by the evenings march, and the straights it entred, seemeth to be) is made stronger by doubling the front, there is no question. On the other side, the streights, thorough which it was to paffe, perswade me, it (hould be a Macedonian Countermarch. For in doubling the front the length still increaseth; & the manner is not to inlarge, but to extenuate the front, when an Armie is to be conveighed thorough a narrow place. And Xenophon faith expresty, that Agesilaus led it thorough the streights into the Champeizne in that order to which it was reduced last; & that in the Champion the depth of the Armed was lessened, and brought to 9 or 10; for there Agesilaus imbattailed his Phalange to receive the enemy, if he would charge. And in a march through straight waies the front is commonly narrowed, and proportioned to the way; but in open ground the Phslange is againe brought to the just length. So that it seemeth the depth was much before it came into the plaine; because in the plaine it was brought to 9 or 10 men, and therefore no doubling. Lastly Agesilaus, (and the front I doubt not of the Phalange with him) turned face to the enemy, before the Rearecame up to him. which is done in no other motion than the Macedonian countermarch. In which all the File-leaders first turne about their faces toward the enemy, and then the whole battaile marcheth against the File-leaders, and placing shem selves orderly behind them, turne their faces the same way, that they have done before. Now where it is in Xenophon, that Agefilaus hauing gained the Champeigne, extended his Armieto 9 or 10 Targeteres, I suspect a fault to be in the number of 9; and that it ought to be read 8 or 10. To extend a Phalange is to draw it out in length. the length is the space betwint the point of both wings. When be saith he extended it to

10, the meaning is he drew it out so farre in length that he left but 10 in depth. Ten is the decas, whereof I spoke before, and I have likewise noted, that the Lacedemonians for the most part, made the depth of their battaile 8. The number of 9, as all other uneuen numbers, was retected by the Tacticks, as unfit for doublings. So that mine opinion is that Xenophon at the first wrote 8 or 10, not 9 or 10, how locuer 9 be crept into the place of 8. But to returne to Agefilaus, admit he vied doubling of ranks, or of the front in retiring out of the Mantinean straights, yet give me leave to be of opinion, that the Macedonian Countermarch had beene the fittest motion for that purpose. For himselfe being thereby cast in the reare, he had both preuented the charge of the enemie (which he feared) and yet wounde better out of the straights, the long Hetle, which fill remained inthe Macedonian Countermarch, being more proportionable to iffue out of a narrow place, then a broad-fronted Phalange, which ariseth out of doubling the

of Ælian.

3 The Persian is the Cretan or Choran] This Countermarch is called the Periian, and Cretan, because it was vsed amongst the Persians and Cretans. And it was termed the Chorgan also, of the similitude it had with the solemne Gracian dances upon stages; the company, that shewed themselves in such dances being called Chorus. Who in their daunces ordered themselves into files, and ranks, as soulaiers doe in battaile, and mouing forward to the brinke of the stage, when being straightned by the place, they could passe no further, they retired one through the ranks of the other, exceeding not the bounds of the place, as is done in this Countermarch. The other two kinds of Countermarch changed the ground, they had before. The Macedonian tooke the ground before the front; The Lacedemonian the ground after the reare. The Choraan boldesh the same ground, & beginneth the motion with the File-leaders, who notwithstanding proceede no further, then thisher, where the Bringers-up flood, their ples following them, & enery fouldier keeping the same distance he bad before the mouing. The figure shewes the manner of it. h These Countermarches by file, are to be made, when the enemy appeares h Xenoph de in the reare, and commeth to charge vs. And they are made to the end, to bring our best rep. Lacedem. men, that is the File-leaders to the incounter. Wherein not with standing there is a caution 686. E. to be held, that if the enemy be very neare, or so neare, that we cannot conveniently coun- See! eo cap. termarch, before he come up to us, we forbeare, lest we fall into disorder, and in disorder 18.5. 39. be easily defeated. In which case the best remedy is to turne faces about, and so receive him.

Milberto of Countermarches by file.

Countermarches by ranke are made | The ends of Countermarches by ranke are two in Elian: one to strengthen the middest of the battaile; the other to strengthen the wings. If the strength of the enemies bastaile, lie most in the middelt, reason of Warre would, that we should oppose our greatest strength against the middest. If in the wings against the winges. There is an other cause of strengthning the winges, namely if the enemy be ready to charge either of them: and this strength Elian would have given by the Countermarch of our best men into the winges. It shall not be from the purpose to make all plaine by an example or two. Herodotus reporteth, that before i Herodotia the battaile of Platza betwixt the Gracians, and the Persians, it was agreed be- & Plutza, ha twixt the Athenians, and Lacedemonians, that where the Athenians had van- Anfide. quished the Persians in the battaile of Marathon, and had lately slaine Massistius the Generall of the Perlian horse; and by those incounters had good experience of the Persian manner of fight; and where the Lacedemonians were imbattailed in the right wing against the Persians, the Athenians in the left wing against the Thebans, and other Græcians, that tooke part with the Perlians: they should change, and the Athenians haue the right wing, the Lacedemonians the left.

Polyb. lib. 1 1.

These newes were caried to Mardonius the Generali of the Persians; who whether fearing the Athenians, or defirous to fight with the Lacedemousans, changed his place from the left into his right wing, to the intent to oppole against them; which when Paulanias faw, he returned to his right wing, and Mardonius to bis left, the place, which he had at the beginning. Here are changing wings on both parts . The one coneting to fight in the left wing, the other desirous to fight in the right. The Countermarch by ranke from the right wing would have fitted Paulanias: as the contrary Countermarch would have fitted Mardonius. Tet am I led to thinke that Paufanias vied a wheeling of his battaile, and so converged at from one wing to another behind the battaile of the other Gracians, to the end, that being hadowed by them, hee might the bester hide his purpose from Mardonius. Another example I finde in Livy k Liv. deead.3. and Polybius both. It is this: k Pub: Scipio, who was afterward called Africanus. and Afdruball the sonne of Gifgo, being incamped neare together in Spaine brought daily out of their Campes their Armies one against an other. And after they had long stood waiting, who should begin the fight, which was done at neither hand, they conveighed them backe againe. The manner of their imbattailing was this. The Romans, and likewise the Carthagineans mingled with the Africans, had the middle, their Confederates the wings. The opinion was they should fight in that order. Scipio when he perceived this to be firmely beleeued, the day before he ment to fight, made an alteration of all. When night came, he gaue the word thorough the whole Campe, that horse, and men should dine, before it was light day, and that the horsemen in Armes should keepe their horses bridled, and sadled. The day was scarse sprunge, when he sent his horse, and light-armed to beat in the Carthaginean Gardes, himselfe streight followed with the armed Legions; disposing the Romans (contrary to the setled opinion of his owne people, and of the enemy) in the wings, and receiving the Allies into the middelt. Afarubal raised out of his bed with the cry of his horsemen, had no sooner leaped out of his Tent, and seing the tumult before the trench of his Campe, and the amazednes of his people, and the Ensignes of the Legions shining a farre of, and the field full of enemies, prefently fent out his whole power of horse to vndertake the Roman horse. Himselse issued out of the Campe with his foote, not changing any thing of his wonted manner of imbattailing. The fight of the horsemen had now a long time beene doubtfull, and could not bee tried, because still, as they were beaten (which hapned a like to both) they found a safe retreat within the battailes of soote. But when the Armies were come within 500 paces one of an other, Scipio giuing a signall of Retreat, and opening his battaile, received all the horse, and light-armed into the middest, and dividing them into two parts, placed them as seconds, behind the wings. Now when time was come to begin the fight, he commanded the Spaniards, who had the middle ward, to march on leafurely, and fent a messenger from the right winge (for hee commanded there) to Syllanus and Martius, willing them to thretch out the left winge, as they faw him stretch out the right; and to charge the enemy with the light-armed, and horse, before the middle wards might be able to come vp, and ioyne. The winges being thus stretched out, they led with all possible speed three Cohorts of foote, and three troupes of horse a peece, against the enemy, befides the light-armed, and those that were received into the Reare, who followed a thwart. There was a great empty space in the middest, because the Enfignes of the Spaniards came flowly on. And now the wings were in fight, when the old fouldiers Carthaginians and Africans, the strength of the Armie, were

not yet come to vie their darts, neither durst they runne into the wings to helpe them, that fought for feare of opening the middeft of the battaile to the enemy, who was comming on against them. The winges were pressed with a double midley. The Horfe, light-armed, & Velices, wheeling about their Troupes, charge their flanks. The Cohores pushed on in front, to the end, to breake of the wings from the body of the battaile. And the conflict was vnequall both in all other respects, and especially because a rable, as it were of drudges, and vntrained Spaniards, were opposed against the Roman and Latin souldiers. The day being now farre spent, the Armie of Asdruball oppressed with the mornings tumult, and compelled to take the field, before they had strengthned their bodies with meat, began to faint, and faile in strength; which was the reason that Scipio lingered out the day, & made the fight somewhat late. For it was past the seuenth houre, before the winges of foote attached one another: and yet the fight came later to the middle wards. So that the fcorching heat of the fouth-funne, and the labour of standing armed, and hunger, and thirft, first afflicted their bodies, before they came to hands with the enemy. Therefore they food leaning vpon their Targets, and being weary both in body, and minde, they gaue backe at last; keeping notwithstanding their array no otherwise, than as if the battaile being yet entire, had retreated at the commandement of the Generall. But when the vietors, perceiving them to shrinke, so much the more eagerly pressed on, the brunt could hardly be indured any longer. And aithough Afdrubal restrained. and stopped them, that gaue ground, crying that hills and a safe place of retreat was at their backs, if they could be but intreated, to revire eatily; yet feare outrcomming (hame, and the enemy killing them that were next to hand, they forthwith turned their backs, and vniuerfally powred out themselves into flight. This firstagem of Scipioreffeth principally in flifting his best men (the Romans) into the winges; the Spaniards his worst into the middest, and in keeping the Spaniards aloote from loyning; and in hasting to try the day with the Romans against the weakest of the enemy. Aldrubals way to meete with this stratagem had beene to countermarch by ranke halfe his Carthaginians, and Africans into one winge, and halfe into the other. And by that meanes his Spaniards should have had the middest against the Roman-Spaniards, and his old fouldiers Carthaginians and Africans beene opposed in the wings against the Romans, and Latins, and the advantage cluded, that Scipio Sought.

As the Countermarches by file were of three kindes, so are the Countermarches by ranke; namely the Macedonian, the Lacedemonian, and the Chorgan. The Macedonian beginneth to move at the corner of the wing, which is nearest to the enemy, the enemy appearing to either flanke. And therefore incarreth the same imputation, that was laid upon the Macedonian countermarch by file; as feeming to runne away, because it dismarcheth from the enemy. Tet is there wife of it, as well as of that by file. For by this countermarch you may fet the strongest part of your Armie against the enemy, and apply the weakest to some River. Lake, hill, or such like, so that the enemy can not come to incompasse it. It taketh the ground that beth on the fide of the contrary wing. The Lacedemonian taketh the ground that lieth on the fide of that wing, which is toward the enemy, and bringeth the best men to be formost against the enemy: And therefore beginneth the moving on the contrary fide. The vice of it is when your forces are fuch as are able to incounter the enemy, and you defire to bring your best men to fight. The Chorean keepeth the same ground the battaile had at first, de bringeth one wing to possesset place of the other; Or elfe the Sections to possesse the place of the wings, as might bane

beene done in the last example cited concerning Scipio and Asdrubal. The manner of countermarch by ranke is contrary to the countermarch by file. In countermarch by file the motion was in the depth of the battaile, and either the front removed toward thereare, or thereare toward the front, and tooke one an others place. In this the motion is in length of the battaile flanke-wife; the wing either marching into the middeft, or elf cleane thorow to the other wing. In doing it the fouldiers, that stand vetermost in the flanke of the wing, must move fust to the contrary wing, and the rest of every ranke severally follow them in order, The figure will shew the manner of the motion. Patritius viterly mistaketh the countermarch by ranke; and groundeth himselfe upon a wrong principle, namely that in all Countermarches the File-leaders must march toward the reare, and the Bringers vp towards the front. And therefore in changing the winges into Sections, he makes the winges to fall of behind in the reare (the File-leaders wheeling about) and there to toyne themselves as neare, as the middle Section will give leave, and the Sections falling backe likewife, to some themselves to the flanks of them. that were the wings. Whereas the nature of this Enclution is clearely to leave the Fileleaders in front, and Bringers-up in reare, as they were at first. And albeit the File-leaders then change their places, yet change they their place with none, but with File leaders, and the change is, but a change of hands, the right hand for the left, or the left hand for the right. For whereas the File-kaders of the right wing had before the right hand, now in countermarch by ranke, being transposed to the left wing, they have the left hand of all the rest of the File-leaders; as likewise the Bringers-up of the other bringers-up.

The words of Command may be thefe,

For the Macedonian Countermarch by file.

File-leaders turne your faces about (to the right or left hand). The reft of every File paffe thorow in order one after another, and place your felues at your diffances after your Leaders, turning your faces about, and fo feand.

For the Lacedemonian Countermarch by file.

The first manner.

Bringers-up, turne your faces about (to the right or left hand.)

The rest turne your faces about and veginning at them, that are next to the Bringers-up, countermarch and place your selues in your distances before the Bringers-up, and one before an other till the File-leaders be stiff.

The fecond manner.

File-leaders, countermarch to the right, or left hand, and let every mans file follow him, and keepe true distance.

For the Chorean countermarch by file.

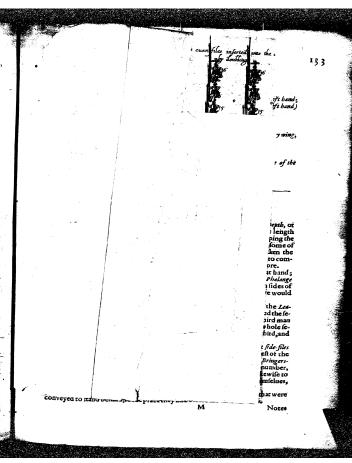
File-leaders, countermarch to the place of the Bringers-up, and fland, and let your files follow you keeping their distance.

For the Macedonian countermatch by ranke.

The right or left hand corner file, turne your faces to the right, or left hand.

The right of eath ranke, pagle shorough to the right, or left hand, and place your school derly behind your side-men keeping your distance.

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The right or left wing, where the enemy and all in the Ranks follow every man Thefe

The othermal corner side of the right, or is left or right winge, and stand. And the rest follow runke-wise keeping to Forthe Chorazan

of doubling,

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Here are two kinds of doublin facts and a cither of their double is doubled in number when of a front fame ground of a fall lies, by inferring the followers, that stood in the depth. length of the buttaile. If we fill to ocall mand double, that we considered to each of the control of the buttaile. There are, that millike thele double and would have a flow of doubling and and would have a flow of doubling and the control of the control of

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For the Lacedemonian countermarch by ranke.

The first manner.

The corner file, where the enemy appeareth, turns your faces to the right or left hand; Therest of eth rankes turns your faces, and passe thorough, (to the right or left hand) and place your sclues before your side-men orderly keeping your distances.

The second manner.

The right or left wing, where the enemy appeareth not countermarch to the contrary wing, and all in the Ranks follow every man his fide man; keeping your diffance.

For the Choræan countermarch by ranke.

The vitermost corner file of the right, or lest wing, countermarch into the place of the lest or right winge, and stand.

And the relf follow ranke-wife keeping their distance.

Of doubling, and the kindes thereof.

CHAP. XXIX.

There are two kinds of doubling, one of Rankes, the other of Depth, or fles: and either of these double the number, or the place. It has length is doubled in number when of a front of 124 files we make a front (keeping the same ground) of 248 files, by inserting in the spaces betwix file and file, some of the followers, that shood in the depth. This is done to the end to thicken the length of the battaile. If we list to recall them to their first posture, we are to command those, that were inserted, to countermarch to the place, they had before.

4 There are, that millike these doublings, especially the enemy being at hand; and would have a shew of doubling made, without indeed doubling the Phalange already ordered, by stretching out the light-armed, and the light, on both sides of the mings of the Battaile. The vie of doubling the length is, when either we would oner-ming the enemy, or essentially the control of the light of the light is the length of the light is the length is.

The Depth is doubled by inferting the fecond file into the first; so that the Leader of the fecond file be placed next behind the Leader of the ferond file be placed next behind the Leader of the ferond file be the fourth man of the first file, and the third man of the fecond file be the fixt in the first file, and so forth the reflection file being rossed file being rossed file being rossed file and like wise the fourth file into the third, and all the euen files into the odde.

Doubting of the Depth by Countermarch is made, either when the next side files in several [as in the former example the second, and the sourch, and the rest of the even files] countermarch to the Reare, and place themselves behind the Bringer-op of the odde files; or else the files remaying in their first place, and number, halfe of them, dividing themselves from the other halfe, countermarch likewise to the Reare, and conveying themselves behind the other, there order themselves, and so double the depth of the Phalange.

If we would returne them to the first posture, we must recall those, that were conveyed to stand behind, to the place they had before the Countermarch.

M

Notes

The front after Dobling of Rankes

Notes.

HE former three Motions after not the forme of the Phalange. For whether you turned faces, wheeled, or countermar ched the Phalange, the depth and length remained one. The motion to be expressed in this Chapter induceth another shape to the Phalange; and maketh it feeme a different body from that it was before, being by Doubling extended either in length or in depth. For Doubling the number of men, or the place of the Phalange in front, maketh the length twife as much, and doubling the same in flanke maketh the depth double to that it was before. For Doubling is nothing elfe. then making a military body twife as long, or twife as deepe, as it was before.

I There are two kindes of doubling] The Doublings are either of length n Suidas inte or depth; Or (which is all one as a Suidas faith) of ranks or files. For ranks stretch moral Diplosa- out in length, files in depth. And these againe are divided into two other kinds, the

body being

2 Doubled in number or place] That which is here called number, is called elseo Suidas in the where persons; or o (by Suidas) men. It is called persons in the Insertion which is werd D.platia- made to Elian, I know not by whom, in the precedent Chapter of Countermarches. Which because it lay thrust in between the description of Countermarches, and nothing perteined to that argument, I never made doubt, was crept into the text. And I am rather confirmed in my opinion, because I saw it noted with an Afteriske in that Elian (being of Robortellus Edition) which the learned Isaack Casaubon had quoted, and purposed to fet forth, if untimely death had not prevented him. I will here fet downe the words, because they differ not much from Elian, and may give some light to the manner of Doubling. It is to be understood (fo are the words) that a Phalange is doubled in persons, or place. when we therefore take halte the fouldiers from the Depth, and making files of them, place them even with the rest in length of the front, so that of 124 files we make 248, this is Doubling of persons. In like fort we double the place with 124 files (not increasing the number) but onely commanding some to turne to the Pike, some to the Target, till the Phalange be stretched out to a convenient length, as from 5 furlongs to 10. In the same manner is the depth doubled. For either one file is inserted into an other, man for man, so that the second File-leader becomes the follower of the first, and the second man in the second file, the follower of the second in the first file, and so the rest: Or else 16 men are so extended, that they hold as much ground in length, as 32 vsuallydoe. So farre the infertion. It followeth in Elian.

3 The length is doubled in number When the front hath twife as many files, as it had before, this is Doubling in number, or in men, or in persons. For the persons, or men, make the number in the files. And the files carrying an even depth of men, and being doubled, double the number of the front, or I noth. Elian peaketh but of one kinde of doubling, namely of number, and that must be done in open order, as I said before. For the files of 16 standing in open order if you command the Middlemen (as we terme them at this day, they were colled in the Macedonian files the third Enomotarchs) to double their ranks: These middle men with the hinder halfe file march up to the front, in so doubling the front in number leave yet the same measure of length. The figure sheweth how it is dore. Tes are there two other maies, when the Phalange fandeth in close order, both which double the number, and place. One is when the Middlemen divide themselnes, and one halfe with their followers turning their faces march out of the right flanke: The other of the left flanke of the Phalange. And then turning their faces againe,

seeme up and toyne themselves in an even line with the File-leaders in front; The other when all the Middle turne their faces one way and march out with their followers beyond one flankeright or left; and turning faces againe fleeue up to the front, and fland even with the File-leaders. One of these is done, when we desire to enlarge both the wings of the Phalange; the other, when but one wing. Of these two last wates, I have set downe no figure, because I finde them not expressed in Elian. Cleandridas the Lacedemonian, wfed yet an other kinde not foken of by Elian. " Polienus telleth the ftory thus; n Polyenlib s. Cleandridas making warre vpon the Thurians, hauing halfe as many men againe, in Cleandrida. as they, conceining if they had intelligence hereof, they would hardly bee brought to fight, imbattailing his Phalange, stretched it out in depth. The Lucans therefore, contemning the small number, drew out their forces in length, with intent to over-front the enemy; which Cleandridas perceining, commanded the followers to march up, and ranke with their Leaders; and by that meanes increafed the length of his Phalange, and ouer-fronted theenemy; who being incompassed, and assailed with missive weapons on all hands perished intirely, excepting a few, that faued themselves by shamefull flight. The words seeme obscure to aman not acquainted with the Tacticks. There are two kinde of foldiers faith Elian in a file, Leaders, and followers. All the Leaders are the odde of the file; as the first, the 2. the 5, the 7, and so forth: the followers are the even, as the 2 4.6.8. Those that are in the same ranke, are called side-men. Now, saith Polien. Cleandridas willed the followers to step forward, and to ranke, and become fide-men with their Leaders: that is, be willed the even files to double their ranks with the odde; and Co extenuated the depth, but increased the length of his Phalange; by which art he overfronted dy inclosed the enemy on all sides. This way then to double ranks, or the length of the battaile, is to infert the even ranks man by man into the odde. All the Doublings that have beene rebearfed, were Doublings either in number alone, or elfe both in number, and place. For doubling of place alone nothing is faid in Elian. The Infertion I recited, supplyeth this defect: saying, the place is doubled with 124 files, onely by commanding halfe to turne to the Pike, halfe to the Target, till the Phalange be firetched to a convenient length; as from 5 furlongs to ten; which is as much to fay in few words, as to open the Phalange; Or to bring it from order, to open order. For so the front possesseth double ground to that it had before.

The vie of Doubling the length is] Two causes are assigned for the doubling of the length: One to overwing the enemy, the other to avoide overwinging our o see Leo eap. felues. Cleandridas in the example aboue, performed both : For he both disappointed 7.9.69.879. the Lucans that fought to incompasse him, and besides incompassed, and inclosed them. The narrower the front is, it is the more in danger of ouer-fronting: P being p Xenoph Cy. drawne out in length it is freer from enclosing , because a greater compasse must be fetched, rop lib. 6. 168. before it can be inclosed. Tet are we to take beed, that in doubling of the front, we give it not so much length that it faile in depth. The want of length, or depth is alike dangerous, and giveth advantage to the enemy. I have touched before, and quoted Leo glancing onely at his words. Now I will fet them downe as they lye: 4 When the thicknes q Leocap. 14 or depth of the Phalange (faith be) is gathered vp and made more thinne, it be- \$. 108. houeth not so to lengthen it, that it become altogether weake and without depth. For it will so come to passe, that the enemy shall easily cut it in peeces, and make a passage thorough it, and not onely seeke to incompasse it before, but paffing thorough the middest, bee found behinde, and there indamage it. And this it behooueth a Generall, not onely to take heede, hee fuffer not himselfe, but also indeuour to put vpon his enemy.

Hitherte

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i Leo cap.7.

Hitherto are the words of Leo: shewing the disadvantage of a battaile too much thinned by doubling the length. But Leo elsewhere acideth an other cause of doubling, namely to make thew a faire fight of the Armie. For the more ground it taketh in front, the more will the number appeare, and the bravery of every min in particular discouered. Further Antigonus vied aife this doubling for a policie to bequile his enemy.

Polien reporteth the fact thus: Antigonus incamped against Eumenes with an armie inferior in number. And when messengers were sent often from one to an orher, Antigonus at the receit of a messenger of the enemy, commanded one of his fouldiers to come running in, as it were out of breath, and all to be-fullied with dust, and to bring newes that his Confederates were come. Antigonus hearing the newes, leaped for ioy, and sent away the messenger. The next day he led his Armie out of his trench, doubling the length of his front. When the enemy heard of their messenger the newes, that was brought to Antigonus concerning his Confederates, and faw the length of his battaile doubled, they imagined that the depth was answerable to the front. And therefore they dislodged being afraid to joyne with him. 5 There are that millike] Countermarches, and Elians doublings of number, are

dangerous the enemy being ready to charge. Because the files of the Battale must be kept in open Order is like motions be ended; which posture is not fit to receive the charge of the enemy, so we faw out of the elementh Chapter. The other two doublings are done in close order, whereof I made mention a little before; The one dividing the middle men in halfe, and sleening them up by the battaile on both sides; The other sleening them upon one side which you will, may be used without danger, as well when the enemy is neare, as when the fight is : in as much, as they disturbe not the battaile, but advance

fresh aides against the enemy on the flanks of it. 6 By inserting the second file] There are two manner of doublings of the depth or of files; one in number, the other in place. In number, when one file is inferted into another, the Leader or first man of the second file standing behind the Leader of the first; the second behind the second, the third behind the third, and so forth of the rest: Or when the euen files countermarch, and their Leaders place themselues behind the Bringers-up of the odde, their files following them; or (which commethall to one) the files being whole, they divide themselves into two parts in the front, and halfe countermarch, and place themselves in the Reare of the other file to file: albeit the two last are Doublings both in number and place, and not in place alone. The true Doubling of the place alone is not Elian. The Infertion whereof I fake, remedieth this defect also. There it is faid, that when 16 men (that is a file) are so extended, that they possesse as much length as 32 should doe, (that is, as 2 files) it is doubling of place. which is nothing elfe but changing of the Souldiers order into open order. For in their order they have 48 foote in depth; in their open order 96 foote in depth. In this Doubling of depth we must take heed that we make not the frent of our Armie to narrow lest we give oportunitie to the enemy to incircle, and incompasse it. Polybius noteth this a great fault in Marcus Atilius Regulus, at Such time as he fought with the Carthaginians, and was taken prisoner. His words have this effect : k The Romans seing the enemy order his battaile marched out against him fu lof courage. Being notwithstanding fomewhat appalled at, and forefeing the Elephants violence in comming on, they fet their Dariers before, and placed many maniples of Armed behind, one after an other, and divided the Horfe halfe into one wing, halfe into the other. Then making the whole battaile shorter, but deeper, then they were wont, they prouided well against the Elephants, but not against the Horse, that farre exceeded theirs of Ælian.

in number. Being now come to hands the Roman horse ouerpressed with multitude of the Carthaginians quickly fled from either wing. But the foote of the left wing, parrly anoyding the Elephants, partly contemning the Mercenaries, fell on, and charged the right wing of the Carthaginians, and putting it to flight, followed hard, and gaue chase even to the trench. But of those, that were placed against the Elephanes, the first finking under the violence of the beasts, perished being ouerturned, and troden to death by heapes. The body of the battaile remained a while vnbroken by reason of the depth of them, that were after placed. But when the Reare of all, incompassed by the horse, was forced to turne about. and fight with them; and the other that had by force made way thorough the middeft of the Elephants, and were now behind their backs, came up to the fresh Phalange of the Carthaginians, ftanding in good order, they were by them flaine. Thus fortune being contrary on all sides, the Romans for the most part were troden to death by the excessive might of the beasts, and the rest died with the darts of the horsemen in the place, where they fought. The error of Attilius Regulus was in ordering his battaile too deepe; by meanes whereof it was easily incompassed, and distressed by the Carthaginian horse. " Appian likewise blameth Antiochus for orde- m Appian in ring his Phalange 32 men in depth, where the Macedonian Phalange ought to but 16 deepe, Syriacis 107.B. shewing that by that over fight it was incompassed by the Romans, and overthrowne. I have touched the historie in my notes before. Many other examples might be alledged, but thefe two are sufficient for our purpofe.

> The words of Command in doubling of the length by number.

Middlemen double your Rankes to the right, or left hand.

By this Command the middle men with their halfe files march up to the front, in the spaces betwixt the files, and stand even with the File-leaders, and the rest even with the rest of the Ranks.

Doubling of the length in place.

Stand in your open order.

One halfe openeth their files to the right hand, the other to the left, and fland fix foote one from another.

Doubling of the depth in number.

Double your files to the right or left hand. The even files fall into the spaces of the odde files.

Double your files by countermarch to the right or left hand.

The even files countermarch, and fall behind the reare of the odde and place themselves lineally after them, observing their first distances.

Divide your files and double them by countermarch to the right, or left hand.

Halfe the files divide themselves from the other halfe, and countermarch out behind the Reare, then turne their faces towards the place behind the Reare of the flanding files, which removed not; then march on, and place themselves orderly behind them file to file, then turne their faces, as at first. Doubling the depth in place.

Ranks open behind to your open order.

М 3

The

The broad-fronted Phalange, the deep Phalange, or Herse, and the wneuen-fronted Phalange.

CHAP. XXX.

D Lagiophalanx, or the broad fronted Phalange, is that, which hath the length much exceeding the depth.

Orthiophalanx, or the deep Phalange (commonly called the Herfe) is that, which procedeth by wing having the depth much exceeding the length. In generalit Speach enery thing is called Paramekes, which hath length more then the depth; and that which hath the depth more, then the length, Orthion: and fo likewise a Phalange.

The Phalange Loxe, or vneuen fronted, is that, which putteth forth one of the wings (which is thought fittest) toward the enemy, and with it beginning the fight, holdeth off the other in a convenient distance, till oportunitie bee to advance

> Of Parembole, Protaxis, Epitaxis, Proftaxis, Eutaxis, & Hypotaxis.

CHAP. XXXI.

P drembole, or infertion is, when placing fouldiers before we take off the hind-most, and ranke them within the distances of the first. Protaxis, or fore-fronting, is when we place the light-armed before the front of

the armed, and make them fore-standers, as the File-leaders are.

When we place the light-armed behind, it is called Epitaxis, as it were an afterplacing.

Proflax is or adjorning is, when to both flanks of the battaile, or to one flanke, some part of the hindmost is added, the front of them, that are added, lying even with the front of the battaile; such addition is called Proftaxis.

Entaxis, or Infition, is when it feemeth good to fet the light-armed within the

spaces of the files of the Phalange man to man.

Hypotaxis, or Double-winging, is when you bestow the light-armed under the wings of the Phalange, placing them in an embowed forme; so that the whole figure resembleth a three-fold gate, or doore.

> How the motions of wheeling, double, and treble wheeling of the battaile are to be made.

CHAP. XXXII.

T followeth to thew how a battaile may be turned or wheeled, and how after reduced to the first posture, or Station.

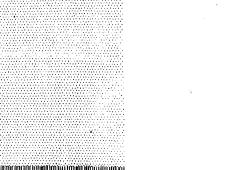
When therefore wee would accustome our Troupes to wheele the battaile to

Plagnophalanx or the Broke-Fronted Phalange

- Cap :

Orthophalanx or the Herse

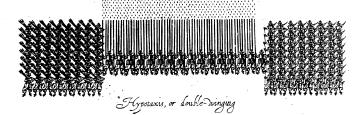
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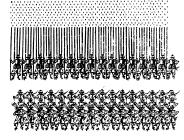


The Front





Entaxis, or insertion



Protocus or Socioning

The first posture

the right hand, we command the right-hand-file to stand sirme, & the rest of the siles to turne their faces to the right hand, and to moue close up to the right hand, and to moue close up to the right hand sile. Then to turne their faces, as they were at sirst: Then the hinder rankes to close forward. Then the whole battaile in that closenesse to wheele about the corner-file-Leader to the right hand. This done, if neede be to reduce it to the sirst posture, or Station, wee command energy man to turne about his face to the Target, or less thand (that is to looke the contrary way.) Then to wheele about the body, that is, as it turned, closed, & terred with the front to the right hand so returne it agains to to the place, from whence it made the wheelings. Then the sile-Leaders to stand firm, and the rest to open their riars behind; Then to turn their faces about, as they stood at first; Then the right-hand-sile to stand fast, and the rest turning saces to the less thand to open their siles; Then to fland; And last-ly to turne their faces againe to the right thand: and so shall energy man haue his siss possible.

But in case we desire to wheele to the left hand, we command the left-hand-file to stand still, and all the rest to turne their faces to the left hand, and mooue forward close vp to the left hand file; Then to turne their faces as they were; Then to gather up the hinderrankes; Then to wheele the battaile to the left hand, and stand; and fois it done, that was commanded. But if restitution to the sirst pofture be needfull, we must doe, as we did in returning from the right. For every man must turne about his face to the Pike; Then the whole battaile wheeling about the left-hand-corner-file-Leader must returne to the place, it had ; Then all the file-Leaders stand firme, and turne about their faces, and the rest open their rankes in mouing forward and make Alte; Then the left hand file is to stand firme (for it hath the place it first had) and the rest turning their faces to the right hand to open their files, and moue forward, till they have recovered their first distances; then to turne their faces as at first; and so shall every man be in his first posture. Now if we would wheelethe battaile about, to the pike we are to make 2 wheelings to the same side, so will it come to passe that the file-Leaders shall in the change haue their faces turned to the Reare, where before they had them looking out from the front. But in restoring to the first posture we command it to wheele about to the right hand; That is, we give it two wheelings more the same way; So the file-Leaders will have their faces fet, as at first. Then we command the file-Leaders to stand firme, and the rest to open their rankes behind; then to turne their faces about; Then the right hand file to ftand ftill (for it hath the right place) and the rest turning their faces to the right hand to march on, till the former distances are regained; then to make Alte. So is the battaile reduced to the first Station.

If you would have the battaile turne about to the Target, you are to give contraine directions; That is, in flead of commanding a double wheeling to the Pike, to command a double wheeling to the Target; Then by making two turnes the contrary way, to viethelike changes, we spake of before.

There is likewife a treble wheeling of the battaile, when it turneth thrice to the fame hand, namely to the Pike, or Target. The double wheeling to the Pike transferreth the Souldiers face from the front to the backe of the battaile. The treble wheeling to the Pike bringeth his face to the left flanke. The treble wheeling to the Target contrariwife to the right flank.

Notes:

Notes.

B Efore in the 26 Chapter Ælian discoursed of wheeling, and the kindes thereof. The manner, how it is to be done, is reserved for this place, I neede not therefore remember any thing else, besides the words of command.

The words of command in Epistrophe.

The ottermost file on the right or left hand stand sirme The rest surne faces (to the side purposed) and march up to the file standing sirme. Faces as you were.

Close your rankes forward:

Wheele the body (to the hand appointed) and when you have your ground, stand.

Returning to the first Posture, or Anastrophe.

Faces to the right or left hand Wheele backe the body to the ground, it first had.

File-Leaders stand firme : the other rankes open to their first place.

Faces about (to which hand you will)

The corner file (to which the turning was) stand firme, the rest open to their first ground. Faces as you were, and order your Pikes.

Perispasmos, or wheeling about.

In wheeling about, the same wordes to close the files, and rankes, are to bee vfed, which were vfed in Epistrophe, there remaineth no more thento fay Wheele about your body, to the right, or left hand.

Anastrophe or returning to the first Posture.

Returne to your first Posture. The same forme is weed, that was held in the former returning wnto the first posture for opening rankes and files.

Ecperispasmos, or treble wheeling.

In this motion the same course is held, that was in the wheeling; But only that you command a treble wheeling. And the returning to the first Posture, or Anastrophe is all one, but for the same difference.

> Of closing the battaile to the right, or left hand, or to the middest.

CHAP. XXXIII.

F we would close, or thicken the Phalange in the right wing, we are to command I the right-wing-corner-file to ftand still, and the rest turning faces to the Pike to advance toward the right hand; Then to fet their faces as they were, and to gather vp the rankes behinde. In reducing them to the first posture we are to com mand the file-Leaders to stand, and the rest turning about their faces to open Cap · 32 · The action of wheeling

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Faces as you was
The right-wingceeds to your first di right hand.
Euces, to you mo
Closeyour hinds Phalange. Icanas communis, or direct Jandrobeoftwoking Phalange, Leanno we are to proceede ou out of clothings, that king his turning. The light-armed Pike, and the left reconcred their fir ther, ther their t wing corner-lile to ceeding onto the T turne their faces as a Large to the left win Ranke; then to to tume faces about mult turne their i their rankes behin The right-wing. Nibe 11 Chyte partiulaty tres h differeth. File-Leaders, Thistuleisto When we wo

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their rankes behinde: Then to turne their faces as they were; Then the rightwing comer-file to thand (for it hath the right place already) and the reft proceeding on to the Target to follow their Leaders, and observing their distances to turne their faces as at Irst. A contrarie course is to be held in thickning the Phs-Linget to the left wing.

If the Philange be to be closed in the middest, the Diphilange on the right hand must turne their faces toward the Target, and the Diphilange on the left hand their faces toward the Pike; Then mone forward toward the middest of the Philange; Then, after their true distance gained, to fet their faces; as they were, and to ga-

ther vp the Rankes behind.

When we would reduce the Phalange to the first posture, wee command to turne faces about them to open the Rankes, and all to move on, but the first Ranke; then to turne their faces againe, and the right Diphalange turning to the Pike, and the left Diphalange to the Target to follow their Leaders, till they have recovered their first distances. Then to see their faces, as they were.

This rule is to be observed in all turnings about of faces, when they are made out of closings, that the Pikes be advanced, least they hinder the Souldier in ma-

king his turning.

The light-armed are to be taught, and exercised after the same manner.

Notes.

I Athe 1x Chapter the distances, that ought to be betwint souldier and souldier, are particularly treated of. This chapter showeth, how they are to be gained, that is, how we are to proceede out of one distance into another. And because the open order is it, that is commonly because withall, it is here taught how from thence to passe to the rest, and to returne to it againe. The end of closings is spoken of before in regard of place they are said to be of two kindes: One to the wing (right or less) the other to the middest of the Phalange. I cannot express the manner better, then by setting down the wordes of command, or direction, which are these in

Closing to the right wing.

The right-wing-corner-file stand firme

The rest turne faces to the Pike, and move (according to the distance required) to the right hand.

Faces, as you were.

Close your binder ranks forward, and order your Pikes.

Restoring to the first posture.

File-Leaders stand surme.

The other Rankes, turne faces about, and open behinde to the first distance.

Faces as you were.

The right-wing-corner-file stand firme; the rest turne faces to the Target, and proceede to your first distance.

Faces as you were; and order your Pikes.

Closing to the left wing.

It differeth not from the other, but that the mouing is to the contrarie hand.

Closing

The Tatticks

Closing to the middest of the Battaile.

The right-wing turne faces to the Turget, the left to the Pike.

Each mone up to the middest of the Phalange, and land at the distance named.

Faces as you were.

Close the hinder rankes forward, and order your Pikes.

Restoring to the first Posture.

The first ranke stand firme. The rest turne faces about, and open the rankes to the first distance.

The files next the middle section standfast, and the right wing turne faces to the

Target, the left to the Pike, and move on till the first distance recovered.

Faces as you were, and order the Pikes. We may not forget Allians generall rule for turning of faces out of Clofings, that the Pikes be alwaies advanced. For when you come up to the clofene speared, the Pike upon the shoulder will hardly admit turning of the face. The like falleth out when you would open from the Clofing.

The v(c, and advantage of these exercises of armes.

CHAP. XXIV.

Hele precepts of turning about of faces, of wheeling, and double wheeling of the Battaile, and of reducing it to the first posture, are of great vie in suddaine approches of the enemy, whether hee shew himselfe on the right, or left hand, or in front, or in the reare of our march. The like may bee faid of Countermarches; Of which, the Macedonians are held to bee the inventors of the Macedonian; the Lacedemonians of the Lacedemonian; and for this cause either to have name accordingly. The Histories witnesse, that Philip (who much enlarged the Macedonian kingdome, and ouercame the Gracians in battaile at Cheronea, and made himselse Generall of Greece) and likewise his sonne Alexander (that in short time conquered all Asia) made small account of the Macedonian countermarch, vnleffe necessitie forced it; and that they both by the vse of the Lacedemonian became victorious ouer their enemies. For the Macedonian countermarch the enemy falling vpon the reare, is cause of great confusion; in as much as the hindermost diffmarching toward the front, and making a flew of running away, it more encourageth, and emboldneth the enemy to follow. For feare, and pursuit of the enemy ordinarily accompanieth that kinde of countermarch. But the Lacedemenian is of contrarie effect. For when the enemy sheweth himselfe in the reare, the Leaders with their followers branely advancing, and opposing themselves, it strikethno small feare, and terror into their mindes.

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Of the fignes of direction, that are to be given to the armie, and their souerall kindes.

CHAP. XXXV.

We see to acquaint our forces both foote, and horfe, partly with the voice; and partly with visible fignes, that what foeuer is fitting be executed, and done, as occasion shall require. Some things allo are to be denounced by the Trumper, for 6a ll directions will be fully accomplished, and fort to a defined effect. The fignes therefore, which are delucered by voice, are most eucleust, and cleere, if they have no impediment. But the most certain a least tumultunes, are fitted, has are presented to the eye, if they bee not obscured. The voice sometime can hardly be heard by reason of the clashing of armour, or trampling, and neighting of Horse, or trumult of carage, or noyie, and consuled founds of the multitude. The visible signes also become many waies incertain, by thickness of aire, and dust, or raine, or frow, or fire-shine, or else theorow ground, that is vincium, or full of trees, or of runnings. And sometimes it will not be easier to find vincium, or full of rees, or of runnings. And sometimes it will not be easier to find vincium, or full of trees, or of runnings. And sometimes it will not be easier to find a nan is not accustomed. Yet can it not fall out, that either by voice, or by signal, we should not gue certain and since the control.

Of marching, and of divers kindes of Bastales fit for a March: And first of the right-induction, of the Coelembolos, and the Triphalange to be opposed against it,

CHAP. XXXVI.

Being now to speake of marching I will first give to understand, that some kind of march is a Right-industion, other some a Deduction on the right, or left land; And that in a single, or double, or troble, or quadrups-sink-sided-battate. In a single, when one enemy is teared; in a double, when two; In a troble, when there; In a quadrups-, when the enemy purposes to give on onal sides. Therefore the march is undertaken sometimes in a single Phalange, sometimes in a twofold Phalange, or an a streeted Phalange, or and sourced of Phalange.

A right-induction is, when one body of the lame kinde followeth another; as if a *kmazy lead, and the relf follow *kmaze-wife. Or a *Tetrarchy lead, and the relf follow according to that forme. It is fo called, when the march stretcheth it selfe out into a wing having the Depth much exceeding the length.

Againfit is coppofed the **Calemboles, which is framed, when the *Antiflemer **Hollows **Dipblameg editionent the Leading, wings, clofing the *Earer imanner of the *Vestation** Comment of the *Vestation** Comment of the *Carer in the *Earer in the *Eare

For the Right-industion pointing at the middeft of the enemies battaile, the Calembolo quickly opening before fertueth both to fusfitze the charge of the front, and to classe in, and circumuent the stanker of the right-industion.

Further-

The Phalange for against of left Owing

The Combolin

The fortesering Phalange

The front

The Tacticks

144 *Treble Phalange.

Furthermorea * Triphalange is to be fet against the Calembolos, one Phalange fighting against one winge of the Calembolos; The second against the other, and the middle, and third forbearing, and expecting a time fit to charge.

Of Paragoge, or Deduction.

CHAP. XXXVII.

Paragoge, or Deduttion is, when the Phalange proceedeth in a wing not by file, but by ranke, having the Commanders or file. but by ranke, having the Commanders, or file-Leaders, either on the right hand, which is called a right-hand-Deduction, or on the left hand, which is called a left-hand-Deduction. For the Phalange marcheth in a double, treble, or quadruple-fide according to the place, and part, it is suspected, the enemy will give on. And both the Paragogies beginning the fight in flanke doe make the length double to the depth. This forme of fight was denifed to teach a Souldier to receive beedfully the charge of the enemy not onely in front, but also in flanke.

of the Phalange Amphistomus.

CHAP. XXXVIII.

ted Phalange.

THe Phalange* Amphistomus (for it is so called, because it hath two fronts, and that part of the battaile, that is fet, and advanced against the enemie, is called a front) Seeing then in this forme the middlemost are ordered backeto backe, and those in front and reare make head against the enemy, the one being Commanders of the front, the other of the reare, therefore it is called Amphificamus. It is of great vie against an enemy strong in Horse, and able to give a hot, and dangerous charge; and principally practifed against those Barbarians, that *Hustmentut inhabit about the river ifter, whom they also call * Amphipps because they change Horses in fight.

refer two horfes, one frare, the osher being sidden vpon.

The Horse battaile to encounter this forme hath a Tetragonall shape, being for the purpose divided into two broad-squares (they are broad-squares, that have the front twice as much as the depth) And thefe. Squares are opposed severally against the divisions of the foot-battaile.

Of the Phalange Antistomus.

CHAP. XXXIX.

· Doube flanked

THe Phalange * Antistomus is like the Amphistomus the forme being a little altered; fo that it accustometh the fouldier to relist the severall kindes of incurlions of Horse. All that bath beene spoken concerning the former Phalange both for foote, and Horse agreeth with this figure also. Herein they differ, that

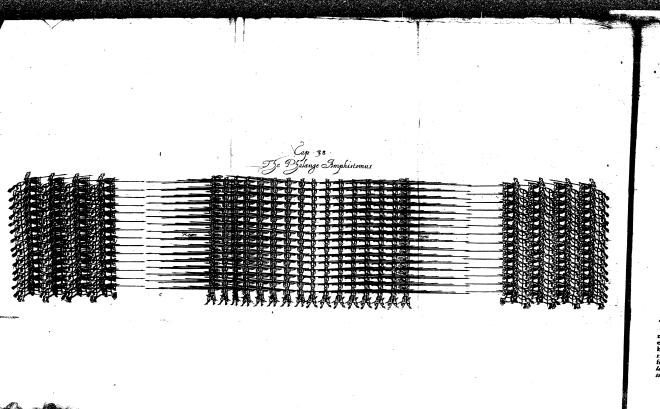
mus in flanke oethe Alms. te their faces This forme :hind, where ge it maketh nge.

placed not in nother, and 1 a left-hand

rife. For the followingin ste, the Leaniddeft with age without titude in the landers conzwixt either aces toward

was inuenby them the ia fpeare, or sercing ma-

onin a wine. ers without. figure (bewg to charge. wings (the . And they wching-Pha-T berefore



the Amphistormus receiveth the ce Bur aswell in the one, as the othe and Sauromatans. And the one h forward, the other halfe backwan hath two fronts, the one before, the back-Commanders stand. And the fore-front with the one, and it

Of the Di

A Diphalange Antifemus is that Deduction outwardly, but in the reare-Commanders without, Deduction.

Deduction.

This forme is vied when the Hor.

*Wrefer thooting foorth into a point fanke, and endeanouring to differer ders of the foote, for feeling their printent either to repulfe them, or elfe loffe. For the Wrefer fillen through the form of the middet, and to difforder the whole be ceaning well the first of that kinde of front, and fland like walles on both it the middets, give them a fruiteffie, at This forme of Horfe battalle is ca

This forme of Horfe-bartaile is ca ted by Philip King of Macedon, who pl weaker fort might be held in , and en in a fword, the point whereof by reafe keth way for, and letteth in the midd

of the Diphalang

CHAP

He Phalange of the Diphalange* Per the oblique deduction on the right the left hand oblique deduction on the right the left hand oblique deduction the reare eth the intent of them that fight fo or hauing been earlieft Tetragenul, divide right, and the left) of purpose to encle fearing to bee inclosed transforme the danger directing one against the right, the true called Periformus, as having the front in the site called Periformus, as having the front in

Of Elian.

the Amphistomus receiveth the charge in front, and reare, the Antistomus in Banke Bur as well in the one, as the other, they fight with long Pikes, as doe the Alun, and Sauromatass. And the one halfe of the fouldiers in the filesturne their taces forward, the other halfe backward; so that they stand back to backe. This forme hath two fronts, the one before, where the file Leaders, the other behind, where the back-Commanders stand. And being also divided into a Diphalasse it maketh the fore-front with the one, and the after-front with the other Phalasse.

Of the Diphalange Antistomus.

CHAP. XL.

A Diphalange Antiforms is that, which hath the file-Leaders placed not in Deduction outwardly, but inwardly face to face one against an other, and the reare-Commanders without, one halfe in a right, the other in a left-hand Deduction.

This forme is vied when the Horse giue on and charge Wedge wise. For the *Wedge shooting foorth into a point, and hauing the Commanders following in flanke, and endeauouring to disseur, and breake the front of the soote, the Leaders of the soote, foreseing their purpose, place themselues in the middest with intent either to repulse them, or elete giue them a thorough passage without losse. For the Wedge slieth you the soote in hope to charge the multitude in the middest, and to disorder the whole battaile: And the soote Commanders conceiuing well the fury of that kinde of forme, leane a little space betwixe either front, and stand like walles on both sides, and iointly turning their faces toward the middest, giue them a fruitesse, and empty passage.

This forme of Horse-battaile is called a Wedge by Tatticks, which was inuented by Philip King of Macedon, who placed his best men before, that by them the weaker fort might be held in , and enabled to the charge : as we see in a speare, or in a sword, the point whereof by reason of the shappedse quickely piercing ma-

keth way for, and letteth in the middle blunt iron.

Of the Diphalange called Peristomus.

CHAP. XLI.

The Phalange of the Diphalange* Peristomus proceedeth by deduction in a wing, the oblique deduction on the right hand having the file-Leaders withour, the left hand oblique deduction the reare-Commanders within. The figure sheweth the intent of them that fight so ordered. For the battaile going to charge, having been eats first Testagonal, divident it selfe into two oblique wings (the right, and the left) of purpose to enclose the adverse sparse-battaile. And they searing to bee inclosed transforme themselves into two severall marching. Phalanger directing one against the right, the other against the left wing. Therefore its called Peristomus, as having the spent bent against the exempton who was not a superfection.

144 Treble Pl

Furthern fighting ag the middle

Paragonal burdhand, with a left-happle-fides And boo to their head headful

* Double fro ted Phalang

* Herfemen that
whe swo horfes,
one frace, the o
sher being ridden upon.

Douibe flanked
 Phalange.

Of the Diphalange called Homoiostomos, and of the Plinthium.

CHAP. XLII.

* A double likefronted Phalange. A Diphalange* Homeiostomus is so named because a whole file (that is 16 men) mouing by it selfe, another file followeth it. And it is therefore called Homeiostomus, because they that follow, follow in a like figure.

* A fourefidedbat:aill fquare of men and ground. Homsiostemus, occalie tues that to the statement of the state of the s

Of the Diphalange Heterostomus.

CHAP. XLIII.

* A double Phalange with conerary flanks.

A Diphalange * Heterostomus is that, which proceedeth by Deduction, having the Leaders of the former Phalange in a right-hand-Deduction, and of the following Phalange in a left-hand-Deduction: so that the battailes march counterchangeably, one having the Leaders in one flanke, and the other in the other: and to the reft.

Againe of the Battaile called a Rhombe, and of the foote-halfe moone to encounter it.

CHAP. XLIV.

The battaile framed in forme of a Rhombe, was first invented by Ilom the Thessalam, and was called the after his name; and to this forme he exercised and accustomed the Thessalam. It is of good vie, in that it hath a Leader at cuery corner, at the point the Captaine, of the Troupe, the reare-Commander behinde, and on either side the slanke-commanders. The foote battaile, sittest to affront this, is the Mensides, or Cressalam, having both the wings stretched out, and in them the Leaders, and the middest imbowed to invition and wrapin the Horsemen in their giving on. Whereupon the Horsemen ply the foot a farre off with shiping weapons, after the manner of the Tarentines, seeking thereby to disclosure, and disorder their circled frame of matching. Tarentum is a City of Italy, the Horsemen whereof are called Acrobolists, because in charging they first cast little Darts, and after come to hands with the enemy.

Of the Herse-battaile Heteromekes, and of the Plagiophalange to be opposed against it.

CHAP. XLV.

He Horse battaile * Heteromekes is that, which hath the depth double to the * ARegh. It is profitable in many respects. For seeming to cary but sew in so small a bredth it decembes the enemy, and it easily breaketh his forces with the thicknesse, and strength of the embattailing, and may without perceiving, bee lead thorough straight, and narrow passages.

The Foot-battaile to encounter it is called the Plagiophalange, or broad-fronted Battaile. For being but flender in depth it beareth footth and extendeth it felfe in length; fo that, albeit it be broken in the middeft with the charge of the Horfe; yet is nothing broken, but a little of the depth; and the fury of the Horfe is carried not you the multitude of the foote, but flraight, and immediately, into the open field. And for that cause is the length thereof much exceeding the depth.

Of another kinde of Rhombe for Horsemen, and of the foote-Battaile Epicampios Emprosthia to encounter it.

CHAP. XLVI.

Nother fort of Rhomboides there is, whereof I need fay no more, but that it flets, and tranketh not. For I have before shewed the vie, and that Heon the Thossalian was the inuentor, and that I flow Medean husband most put it in practice. The vie thereof is great being directed, and lead, in the four corners by the Capined of Archers on Horsebacke, as the America, and Perform manner is.

Against it is opposed the soote-battaile called * Epicampies Empressible, because * Thelesw the circumduction of the front is like an embowing. The end of this forme is to de-fronte tamele, ceiue and ouer-reach the Archers on Horsebacke either by wrapping them in the voide space of the front, as they charge, and giue on vpon the spurre, or else disordering them first with their wings, and breaking their surry, by ouerthrowing them finally with their rankes about the middle Ensgress. This kinde of Battaile was deutifed to entrappe and beguile. For opening the middle hollownesse is maketh shew but of a sew, that march in the wings, having notwithst anding thrice as many following, and seconding, in the reare. So that, if the wings bee of power sufficient for the encounter, there needeth no more; if not, retiring eafuly on either side, they are to joyne themselves to the bulke of the Battaile.

Of the foot-battaile called Cytte, which is to be fet against the Epicampios.

CHAF. XLVII.

The consexebattaile.

THe Battaile to be opposed against the Epicampios is called * Cyrte of the circumferent forme. This also maketh semblance of small forces by reason of the convexitie of the figure. For all round things appeare little in compaffe; and yet firetched out in length, and fingled, they proue twice as much, as they appeared to be: 25 is culdent in pillars, which are round; and therefore in fight shew the one halfe, and conceale the other.

The greatest piece of skill in embattailing, is to make a shew of sew mento

the enemy, and indeed to bring twice as many to fight.

Of the Tetragonall Horfe-battaile and of the wedge of foote to be opposed against it.

CHAP. XLVIII.

He * Tetragenall Herse hattaile is square in figure, but not in number of men For in Squares the number is not alwaies the same: and the Generall for his advantage may double the length to the depth. The Persians, Sicilians, and most of the Gracians doe affect this forme, and take it to bee easie inframing, and bet-

* Wedge.

Again tit is opposed the Phalange called * Embolos, or Wedge of foote, all the fides confishing of armed men. This kinde is borrowed of the Horse-mans wedge. And yet in the Horle-wedge, one sufficeth to lead in front, where the Footewedge must have three, one being vnable to beare the fway of the encounter. So Epaminondas the Theban fighting with the Lacedemonians at Mantinea, ouerthrew a mightie power of theirs by casting his armie into a Wedge. It is fashioned if the Antistomus Diphalangrin marching joyne the front of the wings together, holding them open behind like vnto the letter A.

> Of the foot-Battaile called Ploefium , and of the winding, or faw-fronted foot-battaile to encounter it.

> > CHAP. XLIX.

He Battaile Plassum hath the length much exceeding the depth. And it is called Plassum, when armed foote are placed on all sides, the Archers, and Slingers, being throwne into the middest. Against this kinde of Battaile is set the winding-fronted-battaile, to the end that with the vnequall figure, they may

traine out those of the Plasium to cope with the foremost of the winding-frontedbattaile, and by that meanes distolue, and disorder the thicknesse of the same. And the file-Leaders of the winding-battaile are to obserue, and marke the file-Leaders of the Plasium, that if they still maintaine their closenesse, and fight ferred , they also incounter them in the like forme ; if the Plasium file-Leaders seuer themselues, and spring out from their maine force, then they likewise bee ready, to meet them man to man.

Of Hyperphalangefis, and Hyperkerafis, and of Attenuation.

CHAP. L.

Tperphalangesis, or oner-fronting is, when both wings of the Phalange ouerreach the enemies front. Hyperkerasis, or ouerwinging is, when with one of the wings we ouer-reach the front of the enemy. So that hee, that ouer fronteth, ouerwingeth, but hee, that ouerwingeth, overfrontesb not. For they, that match northe enemy in multitude, may yet ouerwing them.

Attenuation or leffening is, when the depth of the battaile is gathered vp , and in flead of 16 men a smaller number is fet.

Of conveying the Cartage of the Army.

CHAP. LI.

He leading of the cariage, if any thing elfe, is of great importance, and requireth a speciall Commander. It may bee conueyed in fine manners, either before the Armie, or behinde, or on the one flanke, or the other, or in the

Before the Army, when you feare to bee charged behind. Behind the Army, when you would leade toward the enemy. When you feare to beecharged in flanke on the contrary fide. In the middeft, when a hollow-Battaile is needfull and fir.

> Of the words of Command, and certaine obsernations about them.

> > CHAP. LIL

Ast of all wee will briefly repeate the words of direction, if we admonish, first L that they ought to be short, then that they ought to be without double-fignification. For the Souldiers, that in hast receive direction, had neede to take heede of doubtfull words, leaft one doe one thing, and another the contrarie. As for the

The Tallicks

purpose: If I say turne your face, some it may be, that heare mee, will turne to the right, some to the less thand, and so no small confusion follow. Seeing therefore these words turne your face import a general lignification, and comprehend turning to thereigh, or less band, we ought in stead of saying turne your face to the pik; to pronounce it thus: To your Pike turne your face, that is, we ought to set the particular before, and then inferre the generall. Like reason is, if you say, turne about your face, or countermarch. For these are also generall words; And therefore wee should do well to set the particular before. As to the Pike turne your face about, or the target turne your face hous. Likewise the Lacedemonian countermarch, not the Counter march Lacedemonian. For if you place the word Countermarch fift, some of the Souldiers will happily fall to one kind, other to another kinde of Countermarch. For which cause words of double sense are to be auoided, and the special to be set before the generall.

Of silence to be used by Souldiers.

CHAP. LIII.

By taboue all things filence is to be commanded, and that heed be given to directions: As Homere specially lignifieth in his discriptions of the Gracian and Traism fights.

The skilfull Cheef-taines pressed on, guiding with carefull cie
Their Armed treupes, who sollowed their Leaders ssiently.
Tous furely would have deem'd, each one of all that mighty thronge
Had been bereft of speach, so bridtled be his beedfull inngue,
Fearing the dread Commanders checke, and awfull best's among.
Thus march's the Greekes in slience, breathing slames of high desire,
And servent zeale, to backe their spirinds, on soes to wreake their ire.

As for the disorder of the Barbarians he resembleth it to birdes saying.

As sholes of fowle, geese, cranes, and swannes with necks far stretched out, Which in the slimp sennes Casillers winding streames about Sheare here, and there, the siquid skies, sporting or wonton wing. Then fall to ground with clanging noise, the sennes all our ring: None other wise to Twoians sid the field with heaped sounds of broken, and consigled cries, each where summit abounds.

And againe:

The Capsaines mas shall out their Troupes ranged in goodly guife; and foorth the Troians pace like birds, which lade the aire with cries. Rus so the Greekes, whose silence breathed flames of high defire, Ferums in zeale to back their friends, on soes to wreake their ire.

CHAP.

The words of Command.

CHAP. LIIII.

Thus then are we to command.

O your Armes.

Stand by your Armes.
Catiage away from the battaile.
Marke your directions.
Seperate your felnes,
Aduance your Pikes.
File and ranke your felues,
Looke to your Leader.
Reare Commander order your file.

& Keepe your fird diffances.
Faces to the Pike, moue a little further, fland fo, as you were.

Faces to the Target, moue a little further, fland fo.
Faces about to the Pike, moue a little further, fland fo.
Double your Depth. To your firft poffure.
Double your Length. To your firft poffure.

d The Lacedemonian countermarch. To your first posture.
d The Macedonian countermarch. To your first posture.
d The Chor can countermarch. To your first posture.
e Battaile wheele to the Pike. To your first posture.
e Battaile wheele about to the Pike. To your first posture.

These precepts of the Art Tacticke (most inuincible Cesar) I have laide out to your Mails, which will be a meanes of safety to such, as shall viether a nod of

the ouerthrow of their enemies.

N 4

The

a Before cap. 110



THE EXERCISE OF THE ENGLISH IN

the feruice of the high and mighty Lords, the LORDS the ESTATES of the vnited PROVINCES in the Low CONNTRIES.



HE Soldiers are divided into two kindes, Foote and Horse. The Foote againe are of two kindes; Pikemen and Musketiers.

Pikemen are armed with a head-peece, a Curace and Tafes defensive, and with a Pike of fifteene foote long, and a Rapier offensive. The Armour is all yron; the Pike of Ashen wood for the Steale, and at the vpper end an yron head of about a handfull long with cheekes about the length of two foote, and

at the butt-end a round frong locket of yron ending in a pike, that is blunt, yet flarpe enough to fixe to the ground. The forme thereof is expressed in the grauen figure.

The Mulketier hath a head-peece for defence, a Musket, the barrell of the length of 4 foote, the bore of 12 ballets to the pound; a Bandelier, to which are fastned a convenient number of charges for powder (sometimes as many as 15 or 16) a lether bagge for bullets, with a pruning yron; a Rest for the Musket with an yron forke on the vpper end to support it in discharging, and a pike on the nether end to slicke into the ground; lastly, a Rapier. The figure of this armour also is here inserted.

These foldiors, both Pike-men, and Musketiers, are divided into Companies; and every Company consisteth, halfe of Pikes, halfe Musketiers. The Companies are some more in number, some less. Some reach to 300 men, some 100, some 100, some 90, some

Companies are compacted into Regiments; and the Regiments commanded by Coronells. Regiments conteine not alwaies a like number of Companies, forme hauing 10, forme 11, 12, 13, 14, 15, forme 30 Companies and aboue. In euery Regiment are a Coronell, a Lieutenant Coronell, a Sericant Maior, all officers of the field; a Quarter-mafter, and a Prouoft-martiall for other imployments. It shall not be greatly to the purpose to mention higher officers, then Coronells, my principall intent being 80 other, then to set downe the armes and exercise of our Nation in the said vnitted Provinces. Their armes are spoken of Their exercise followes.

First both Pikes and Muskets are ordered into files of 10 deepe. The Muske-tiers are sometime placed before, sometime in stanke, sometimes in the reare

of the pikes. To exercise the motions, there are two distances to be observed.

The firthis when every one is diftant, from his fellow 6 foote square, that is in

file and ranke 6. The second is when enery Souldier is 3 foote distant one from the other aswell

infile, as in Ranke.

And because the measure of such distances cannot be taken so mistly by the eye, the distance of 6 foot betwixt the files is measured, when the Souldiers stretching out their armes doctouch one an others hands: and betwixt the Rankes, when the ends of their pikes come well night to the heeles of them; that march before. And the measure of 3 foote betwixt the files is, when their elbowes touch one another; betwixt the rankes, when they come to touch the ends of one ano-

For to march in the field, the distance of 3 foote from file to file is kept, and of

6 foote from Ranketo Ranke.

To order themselnes in Battaile, as also to goe towards the enemy, the distance of 3 foote in file, and ranke, is observed; and likewise to conversion or

The Musquettiers also going for to shoote by Rankeskeep the same distance of 3 foot, but going to skirmish they goe ala Difbandade, which is out of order.

There is yet another fort of diffance, which is not yfed, but for to receive the enemy with a firme stand, and serverh for the pikes onely (for the Musquettiers cannot be so close in files, because they must have their Armes at liberty) & that is, when every one is diffant from file to file a foote and a halfe, and 3 foote from Ranke to Ranke. And this last distance is thus commanded, Close your seines throughly. But it is not to be taught the Souldiers, for that, when necessitie shall require it, they will close themselves but too much, of their owneaccord without

To begin therefore to doe the exercises, the Company is set in the first distance, to wit of 6 foote in file, and ranke, and thus is said

Stand right in your files. Stand right in your rankes. \ which are often to be ved. Silence.

These are the generall words of Command

To the right hand. Asyou were.

To the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left hand about. To the right hand as you were. You must note that when they are commanded to be as they were, they must returne thither, from whence they parted; and if they turned to the right hand, they must returne to the left, and fo in countermarch.

To

To the right double your rankes. Rankes as you were.

To the left hand double your rankes. Rankes as you were.

To the right hand double your files. Files as you were.

To the left hand double your files. Files as you were.

With halfe files to the right hand double your Rankes. Halfe files as you were.

With halfe files to the left hand double your Rankes. Halfe files as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right hand or left at discretion as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

To the right or left hand as you were.

Close your Files Close your Rankes Cto 3 foote diftance.

Vaderfrand that in Clofing from the outfides to the middle the Saldier is to fland in his diftance of 3 foote in file, and not clofer.

To the right hand wheele. To the left hand wheele.

Open your Rankes backwards in your double diftance to wit at 12 foote, and this for a fingle Company.

Rankes as you were, fe. at the first.

In opening Rankes or Files, you must keepe them closed vntill the second Ranke or File beginning from the outlides have taken their diffances, and so shall the rest remaine close vutill every Ranke or File have taken their distances in order.

Open your files, to wit to the first distance of 6 foote.

If you will command to close files to the right hand or left hand, the outmost file frandeth ftill, and the reft close to that file.

For the Pike with a firme stand.

Advance your Pikes. Order your Pikes. Slope your Pikes.

Charge your Pikes. Order your Pikes. Traile your Pikes. Checeke your Pikes.

More for the Pikes first with a firme fland and then marching.

Charge your Pikes. Slope your Pikes. To the right hand charge your Pikes. Slope your Pikes. To the left hand charge your Pikes. Slope your Pikes. Charge your Pikes to the Reare.

This must be observed charging your Pikes with a firme stand to set the right fact behind and sharging the Pikes marching to fet the left foote before.

For the Musquet.

He Postures in his Excellencies Booke are to be observed; but in exercising you must onely vie these three termes of direction. Make ready.

Prefent.

Slope your Pikes.

· Your Musquettiers must observe in all their motions to turne to the right hand, and that they carry the mouth of their peeces high, as well when they are shouldred, as in pruning, and also when they hold their pannes garded, and come

vp to gine fire. In advancing towards an Enemy, when they doe not skirmish loose and dis-

banded, they must give fire by Rankes after this manner.

Two Rankes must alwaies make ready together, and aduance ten paces forward before the body, at which diffance, a Sergeant (or when the body is great some other officer) must stand, to whom the Musquettiers are to come vp before they present, and give fire, first the first ranke. And whilest the first gives fire, the second Ranke keepe their Musquets close to their Rests, and their pannes garded, and assoone, as the first are fallen away, the second presently present, and giue fire, and fall after them-

Now affoone as the first two Rankes doe mone from their places in the front: The two Rankesnext them must vnshoulder their Musquets, and make ready, so asthey may aduance forward ten paces as before affoone as euer the two first rankes are fallen away; and are to doe in all points as the former. And all the other Rankes through the whole division must doe the same by twoes, one after another.

A manner

A.manner there is to give fire retyring from an Enemy, which is perfermed after this fortt.

As the Troope marcheth the hindermost ranke of all keeping still with the Troope is to make ready, and being ready, the fouldiers in that ranke turne alto- The mental to gether to the right hand and give fire, marching prefently away a good round the Rease. pace to the front, and there place themselves in ranke together just before the front : As soone as the first ranketurne to give fire, the ranke next makes ready, and doth as the former, and fo the reft.

We give fire by the flanks thus. The vppermost file next the Enemy must be Therenay in commanded to make ready, keeping still along with the body, till such time, as flanke. they be ready, and then they turne to the right, or left hand (according to the fight of their enemies either vpon the right, or left flanke) and give fire altogether. When they have discharged they stirre not, but keepe their ground, and charge their Peeces againe in the same place, they stand. Now as soone as the forefaid file doth turne to give fire, the vttermoft next it makes readvalwaies keeping along with the Troope till the Bringer-up be past a little beyond the Leader of that file, that gave fire laft; and then the whole file must turne, and giue fire, and doe in all points as the first did, and so the rest one after the other. A Sergeant, or if the Troope be great some other better qualified Officer must fland at the head of the first file, and affoone as the fecond file hath given fire, and hath charged, he is to lead forward the first file vp to the second file, and so to the rest one after another, till he hath gathered vp agains the whole wing, and then he is to joyne them againe in equal front with the pikes.

Last of all the Troope or whole wing of Musquettiers makes ready altogether, Thomas and the first ranke without advancing gives fire in the place they stand in , and freek speedily, as may be vet orderly falls away, all the rankes doing the same successive without affecting ly one after another.

Thus much of the armes and exercise of the foote:

The horse ensue.

The order and discipline bolden in Horse-troopes or in the Cavalra.

'H E Canalry hath for his Cheife the Generall, the Lieutenant Generall, and the Comiffary generall.

To the Cavalry there is a Quarter-mafter generall, and a Prouoft generall belonging; the luftice reforteth to the Councell generall of warre of the Army.

The Cavalry is of two forts. Har quebafiers, and Curafiers.

The first haue for defensive armes, the Curace pistoll proofe, and a light headpeece. For offensiue the Carbine of 3 foote, 3 inches length, and the bore of 20 bullets in the pound, and Piffolls like vnto the Carafters.

The Curafiers have for defensive Armes a compleat armour, the Curace pistoll proofe. For offen fine two pistolls having the barrell of 26 inches in length, and the bore of 36 bullets in the pound. See the figure of Armes.

For the order in Regiments the 40 Companies entertained by the States doe make eleven Regiments.

The Regiment of the Generall hath alwaies the Vantgard, the othersalter-

natively and by turnes, and he that hath it this day, the next day after hath the Reare, the rest following in the same fort.

Those which command the Regiments are called Goronells. The Regiments are compounded of 3, or 4 Companies (of 3 at the least) and the Coronells Company marcheth alwaies on the left wing of the Regiment.

The Captaines receive orders from their Goronells, as these from the Com-

millary Generall.

All the Companies are divided in a equall parts, which are called Squadrons, and dillributed to the three chiefe officers; Captaine, Cornett, and Lieutenant, having each of them adjoyned an old Souldier, which they doe know to bee of more defert, called a Corporall.

Marching in the field, euery Officer marcheth at the head of his Squadron, the Lieutenant excepted, which marcheth behind with the Quartermafter; and the third Corporall at the head of the Lieutenants Squadron.

The Companies are divided by files, and rankes, the file 5 deepe, and no more, how fitting focuer the Company be.

They observe that in marching in battaile they must be close together, and to doe the Motions there must be of foote distance from one Horseman to another.

The Companies being in battaile, there must be 25 paces distance lest between enery Company, and 50 betwixt enery Regiment at the least.

The exercise of Armes for the Cavalry.

To open the Squadron you must first open the rankes and after the files. To close the Squadron, you must first close the files, and after the rankes.

To close the Squadron, you mult first close the files, and after the rankes.
There be two forts of distances betwixt the files; the one close, and the other

In the Close there must be no distance or intervalls betwirt the files, to the open there must be 6 foote betwirt enery file.

epen there must be two forts of distances betwixt the rankes; the Close, which must be without intervall or streete; and the Open, which must be six spote distance.

In a march it must be vinderstood, that the rankes must neuer be more opened, then the open distance of 6 soote.

And to the end that the Troope may march in good order, and observe well their distance betwitt the rankes, without that the last may be forced to runne or goe to fast, there must be heed taken, that so soone, as the first rankes begin to march, all the Troope, and the Rearealso at one time march.

The words of Command are

Open your Rankes. Open your files.

Stand right in your rankes. Stand right in your files.

To the right hand. As you were. To the left hand. As you were.

To the right hand about. To the left hand as you were.

To the left hand about. To the right hand as you were.

Files to the right hand countermarch. Files to the left hand countermarch.

To the right or left hand as you were.

Rankes to the right hand countermarch. Rankes to the left hand countermarch.

Close your files. Close your rankes.

To the right hand wheele. To the left hand wheele.



Faults escaped in the Booke.

D. & 3. in the margent beneath, for Spartinean read Spartinean. Pag. 9 lin. 20. for was, were. & lin. 31. for hiscanus, hivenus; and in the marg. Int. 40. for Deputiphe, Diputiphe, pag. 10. lin. 36 in marg. for Jonepher, 1. 1. in marg. for Deputiphe, Diputiphe, pag. 10. lin. 36 in marg. for Jonepher, 1. 1. in marg. for Deputiphe, Diputiphe, p. 13. 1. 18. for Merillant, and Jolffilmen, p. 17. 14. for for lands, p. 18. 1.

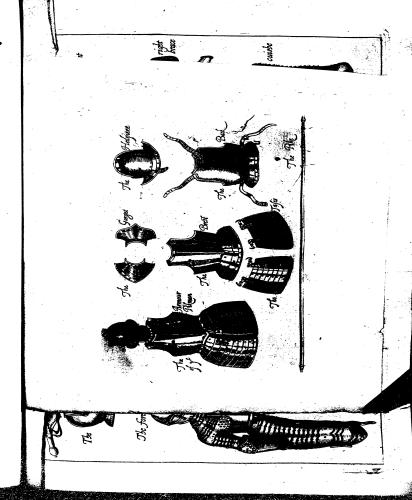
1. 11. for deputine, p. 18. 1. 1. Jode Then. p. 18. 1. 18. for There, Therest, lin. 48. dole [ad. p. 32. 1.]. for There, Therest,

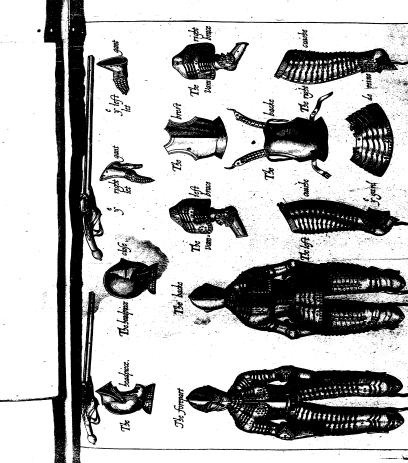
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 $FI \mathcal{N} IS.$

THE ART OF EMBATTAILING

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ARMY.

0 R,

THE SECOND PART OF ELIANS TACTICKS.

WITH NOTES VPON EVERY CHAPTER.

By Capi. IOHN BINGHAM.



LONDON:

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BRYDENELL for RALPH MAB.

1629.





TO THE RIGHT VVOR-SHIPFVLL SIR HVGH HAMERSLY, Knight, one of the Aldermen and Coronels of the Honorable City of LONDON, and President of the Martiall Company, Exercifing Armes in the Artillery Garden in LONDON.

TO CAPTAINE HENRY VVALLER, NOW CAPTAINE OF THE SAID COMPANY.

AND

TO ALL THE REST OF THE Worthy Captaines and Gentlemen of the said Company.

Captaine I. B. wisheth such valour and experience, as may make them victorious against all forts of Enemies.

Worthy Gentlemen:



 $otin He se my last endeuours upon <math>oldsymbol{E}$ lian, $oldsymbol{I}$ purposed to have kept to mine owne priuate vee, and not to have presented them to the view of the world. But now being to depart from you, and to courney into a farre Countrey, and finding your

kindnesse and love toward me such, as I was not with any reason to expect, I altered my minde, and having nothing A 2

The Epistle Dedicatory.

else to offer unto you, I resolued to make this a monument of my thankefulnesse to you, and a testimony of my desire to doe you the best service I am able. For my paines herein, I leave them to the judgement of any learned Reader; for the profit of the Treatife, I say no more but this, it containeth the practife of the best Generals of all antiquity concerning the formes of Battailes. And whereas many hold opinion, that it forteth not with the vse of our times, they must give me leave to be of another mind: Indeed our ations in Warre are onely now a dayes and fieges oppugnations of Cities: Battailes wee heare not of, Jaue onely of a few in France, and that of Newport in the Low-Countries. But this manner will not last alwayes, nor is there any Conquest to be made without Battailes. He that is Master of the field, may dispose of his affaires as he listeth: bee may (poyle the Enemies Countrey at his pleasure, he may march where he thinketh best, he may lay siege to what Towne be is disposed, he may raise any stege that the Enemy bath layed against him or his. Neither can any man be Master of the field without Battaile, in ordering where f, that Generall that is most skilfull, seldome misses of winning the day: experience of former times cleares this. I should exceede the compasse of an Epistle if I brought the examples, which serve to this purpose. Now for the skill of ordering Battailes, it is not to be learned out of the practife of our dayes, wherein when we come into the field, we make sherees, and musters rather, then observe any formes of Battailes for vse: Battailes must not be alwayes of one figure. The wife Generals of ancienter times, fashioned their battailes according to the range, which they jaw the Enemy had before taken vp. The place often maketh an

The Epistle Dedicatory.

alteration in that forme, which otherwise would ferue to our purpose. He that is acquainted but with one forme, if he be forced to change that upon the sudden, disordereth bistroopes, and bringeth all into a confusion. The knowledge of the formes of battailes being then so necessary for a Generall, this little Pamphlet must needs be welcome to them that defire the mannaging of fields, and the command of Armies. For bere have you all formes expressed, together with their vie; fo that the Generall that is acquainted with the practife of these precepts, shall not be to seeke to make transmutation of his battaile, into what forme soener necessity shall require, or that upon the sudden. As for them that hold, that great Ordnance will not admit any of thefe ancient formes in our dayes, I bold that for a dreame, and not worthy the answering; since the invention of great Ordnance, we never read of any forme of battaile disordered thereby Some Slaughter bath beene made by great Ordnance, and the Army that suffred by great Ordnance, bath beene ferced the fooner to joyne with the Enemy; when the Armies are toyned, great Ordnance bath and must sitstill, and looke about as an idle spectator, serving for no other vse, then for a pray to him that gaineth the field. Now for (mall shot, it succeedesh in the place of the lightarmed of antiquity. By them a Battaile may be broken, if they be not repressed, and themselves cut off in time. But what is said of them, that may not be said of Bowes and Arrowes? The greatest fields that we gained against the French, were gained onely by our Archery. To fay nothing of other Nations, that had the skill of shooting: so that no reason can be alleadged why the formes of Battailes wsed by antiquity for advantage, may not be as well vsed in our dayes.

Your feruant, as heretofore,

to doe you feruice,

IOHN BINGHAM.



THE TACTICKS OF ELFAN, OR THE ART OF EMBATTAL LING ARMIES.

The broad fronted Phalange, the deepe Phalange, or Herfe, and the vneuen-fronted Phalange.

CHAP. XXX.



Lagisphalange, or the broad-fronted Phalange is that, which hath the (2) length manifoldly exceeding the depth.

(3) Orthiophalange, or the deepe Phalange (now commonly called the Horle) is that which proceedeth by a (4) winge, having the depth much exceeding the length. In generall speech euery thing is called (5) Parametes, which hath the length more then the depth; and that which hath the depth more then the length

(6) Orthicn: and fo likewife a Phalange.

The Phalange (7) Loxe, or vneuen-fronted, that is, which putteth forth one of the wings (which is thought fittest) towards the Enemy, and with it begins the fight, holding off the other in a convenient distance, till opportunity be to aduance.

NOTES.

His Chapter and the next, feeme not to hold their right place: for being fet before the manner how to wheele, and likewife before clobeing (et before the manner now to where et and intervale of the which * Battails, fings, and inferred betwirt the motions of the Phalange (to which * Battails, and the same appearance) motions, or to one of them, the manner of wheeling and clefings appertaine) they interrupt the method or orderly handling of the faid motions; which method Lhan curiously observeth through his whole Booke. Besides, &him elie, after a manner pointeth out the true place of them, in that in the sa Chapter, rehearing thortly the appellations or words of Military Che pline; he placeth these formes after Induction and Deduction: I take it therefore, that their proper place is after the 37 Chapter, the rather, becanfe a lithe formes of Marches from thenceforth handled, are either squares of the one kinde or other, or elfe fpring out of thefe Squares. I b noted be- 64-18

fore, that there are three kinds of Squares; one, that hath a longer front then flanke; another, that hath a longer flanke, then front; the third, that hath the front and flanke equall. Of the third Elian speaketh in the 42 Chapter, of the first and second in this Chapter: of these two therefore I will treat in order. And first I will handle the Names, then the Vse, lastly the Manner how to transforme one into another.

The first is called

1. Plagiophalanx, or the broad-fronted Phalange.) The word ways is often interpreted for ablique, which fignification it cannot have heere; the oblique Phalange being in this Chapter tearmed by the name of we, and yet diffingnished from the Plagiophalanx. They that translate Plagiophalanx. the transuerse or over-thwart fronted Phalange, agree better with Elians meaning, because it meeteth the enemy with a front trans-uerse, and drawne out in length, and directly opposite against him. I have rendred it the broad fronted Phalange, as more fitting the English tongue: It may also be called the long-fronted Phalange. For breadth (I have remembred it before) and length of a Phalange are all one: In this sense is the word madges vsed by Arrian, being applied to the manner of bearing of a Pike. He telleth, that Alexander transported his Army ouer the river 18ter, to invade the territory of the Getes; and hath thus, The number of those that passed the riner with Alexander, were about 1500 horse, and 4000 soot. They passed in the night, and landed where the Corne was high, which was the cause that their arrivall was not descried. As soone as the morning appeared, Alexander led them through the Corne fields : Commanding the foot, that bearing downe the Corne with their Pikes beld a thwart, waylan raw seesess, they should march into the Champeigne. The manner of their bearing of Pikes (as I interpret it) was this; They tooke the Pikes in the midft with both their hands, and fo bore them out, not with the points forward, but croffe and paralell the front of the Phalange, that the file leaders with one joynt force might ledge and beare downe the high-growne Corne, and make easier passage for those that followed. If they had carried them out flope, or oblique (which is the other fignification of the word) it had beene no more, then the particular force of every man a part, that held his Pike floping; besides that, they would have beene intangled in the Corne; whereas the bearing of them crosse partallell with the front, was the joynt force of fo many file-leaders, as did thrust forward against the Corne. Therefore as when the Pike is borne in full length crosse the front of the battaile, the posture of the Pike is said to be and so so is a Phalange termed with, that hath a front stretched out in even length, and opposed against the even front of the adverse battaile of the enemy.

2. The length manifoldly exceeding the depth. I Elian fets not downe exprefly any proportion of the excelle of the length about the depth, onely he faith, it must manifoldly exceed the depth : We must take it then, that the excesse of the length must be at the least threefold; for thrice fals into the 4. Phalange Mer appellation of manifold. A Macedonian fourefeld Phalange may justly challenge this name, being 1024 men in length, onely 16 in depth. And likewise a Phalangarch led severally and by it selfe, as having 256 men in length, but 16 in depth. The rest of the bodies of the fourefold Phalange, till you come downe to a Pentecofiarchy, albeit ranged by themselues, are likewise Planiophalanees, or broad-fronted bastacles. A Pentecostarchy hath onely

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cedenian confifting of 1684 pike-Phalangarchis the fourth part of a Phairinge.

twice fo many in front, as in flanke (as 32 in front, 16 in flanke) and there 4 Penercoling fore commeth not under the name of a broad-fronted Phalange. So that chylmbia it fin let the battaile be as long as you lift, having but the ordinary depth, it flill The ordinary is accounted a Plagiophalange. When it is but twice to long in front as in dephisis. flanke, it cannot deserve that name, but it is to be termed rather a Square of ground, because the flanke in a square of ground taketh vp as much ground as the front. To the Bastaile-broad-fronted, is next added the Phalange, called 3. Orthiophalange, or Herse] which albeit it have the length and depth vnequall, as hath the Plegiophalange, or broad-fronted Phelange, yet must

the depth manifoldly exceede the length, which is contrary in the Plagiophalange. This faith Elian proceedeth in

4. A wing. To proceede in a Wing is to march on with a parcell or one . Rimes, s. led 4. Ca bridge a process and resignation number of files (as with a * 72 story one body of the Army, namely with a certaine number of files fire it like manager (a spaintage). trarchy, b Taxis, or c Syntagna) and to follow with the rest in like manner, so \$77. that the whole army holdeth no proportion of length or breadth to the depth. Alicaes, that the whole army holden no proportion of tengen or present to the depression of the state of and by Arrian, Ramina arrays, a deepe phalange, because the forme of it ariseth a A body of 8 out of the depth of the embattailing, as I have noted vpon the fenenth Chap-file. ter. This kinde of march the Greeke writers expressely the words of leading d in upos and estra upos, that is, in a wing ; whereas the other kinde with a b Dieder Sie Land large front (I meane the broad-fronted Phalange) is faid to be led finishmyse, 4711.; 6 and 5 km garayya, and becompy, in a Phalange, and interment to interme in front, Goodlessed and sim edways, and "esparays, in a rostonge, and provided to helpethem, artistage lim in any in roston of breadth. The words leccite to helpethem, artistage in the same in t who although they be skilfull in the Greeke tongue; yet are not fowell ac Greeke 558.4. quainted with the Tactickes, and may easily mistake, or not understand the sandings fignification, if they be not forewarned. But because I have before in my figureation, it tiley be not totewarded.

In the state of ample, or two, onely to explaine, and to give light to both formes. * Arri- Leville. an reporteth, that when Alexander was to passe the river Granicus, on the "Arth. 14. further fide whereof the perfians had embartailed themselues in a "broad- " lin ways fronted phalange to hinder his paffage, Parmenio one of his eldest and best water. Commanders came vnto him, and gaue him this counfell; Sir, faid hee, Consider the Persians are ready to encounter you on the other fide: my opinion is, you cannot gaine the passage without exceeding danger : both because your phalange cannot be led on front (that is, in a broad front) by reason of the many and sundry o wutnum; depths that are to be seene in the River, and of the beight and steepenesse of the banks, as also for that the enemies horse ordered in a? phalance, will be ready to charge vs, ? weedaysa. whilest we disorderly and I winewise (which is the weakest kinde of fight) endeanour and they. to scamble up the bankes. Thus Arrian ving the words before recited, and noting the difference of both the formes. Les hath the like paffage, infruit - 120 647526. ing his Generall how in the night to furprize an Enemy in his lodging. His words are these in effect; When you march, saith he, to the intent that no tumult or confusion of noise be heard, nor the freiching out of your battaile into a great length breede error and inequality in marching; and bereupon cries and loud command; arife, jo that the Enemy may eafily perceive the acceffe of your Ar- and single mie; It behoueth you to march not in 'front, that is, in a " large extension of "windauanmic; 11 occounting you to march nor in Jrons, that is, that is a forest of industriling; as if one word diego. file froud follow in the reare of another, observing fill to maintaine the depth, or In Herte. thickneffe of the battaile. His meaning is : That in the night an Army ought 1 is it is a

of the words marching in a Wing and marching in a Phalange. 5. Every thing is called Parameter. It is to be observed, that there is a difference betweene Paramekes and Heteromekes. I thought good to note it. because Llian in divers places mentioneth both. Parametes is the figure. according to Elian, wherein the length many times exceeds the depth; it may be Heteromekes, albeit it be but twice as long as deepe. I am not ignorang that a Enclyde nameth all foure fided figures, that have right angles. and snequall fides, Heteromekes. But Sliam, though hee apply Heteromekes fometimes to the front, fometimes to the flanke, yet he gives no more then

a double proportion either of front to flanke, or flanke to front.

6. oribion.] Albeit the word Orthium properly fignific things rifing in Alian hash after- a height, yet in military discourse it is applied to the dimension of the depth of a battell, and not of the length. Here a Phalange is termed Orthia, and in Leg in the place last by me cited, mention is made of mapa-nutre ofthe, a deepe ime D'explayeD. battailing : and in Xenophon' Nixte office, a Company ftretched out in depth; as in Polyen alfo, and Arrian, and Appian. Polyen hath befides, Taylurm office, arid setus collar, for an army, that is cast into a great depth, and into a narrow front. Therefore, as Paramekes fignifieth the length of the front; fo Orthion fignifies the depth of the flanke of any battell ordered, as is aforefaid. Thus much of the names of the two battels: It remaines to shew the Vse of them, and how one may be transformed into the other.

The Plagiophalange, or broad fronted battell bringeth most hands to fight with conveniency, and therefore is accounted the better forme; and as neere Phalange, and of as opportunity of ground would give leave, the ancient Generals principally affected, and fought to put this forme in vre : It hath the commodity to overfront the adverse battell, and is fafe it selfe from overfronting, vnlesse the Enemy bring a greater multitude then you have to over-match your Army. The Macedonian Phalange was for the most part of this forme, as all the fields Alexander fought euidently declare; So ordered he his troopes at Granicus, fo at Illos, fo at Gaugamelos, fo in other places, if the ground would ferue. This Caution notwithstanding was observed, that the depth held proportion with the length; otherwise the length profiteth not so much, as the thinnesse of the depth hurts, by giving meanes to the enemy to breake through, and put the adverse battell in a rout. I have noted it before out

> The Herse, or deepe Phalange, was thought the weakest kinde to fight in. Parmenio, one of the chiefest Commanders alexander had, distrusted it (as I have (hewed a little before.) & Cyrus the elder, in the embattailing of the Egyptians, derided it; yet cannot the forme of the broad fronted Phalange be foexactly taken vp, but that necessity will sometime force the other. In fraight places it hath beene often vsed : Soh Darius in the battaile of Islos, by reason of the straightnesse of ground, was forced to this forme: So Bomilear the Carthaginian, was faine in a straight place to make a narrow front of his

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phalange, and to extend it in depth. And Acilius Glabrie the Roman Con- Limbas, state; full, in the freights of Thermopyle against Antischus : and P. Scipto in Spaine . Links . s. S.c. against the Illergets. Therefore in large grounds the first forme is to be chofen, in narrow and rough places the other. The Herfe is also fit for Marches. because in a March you are assured to meet with variety of ground: sometimes with woods, fometimes with bushes, fometimes with streight wayes, with rivers, with hils, with pits, with bridges, with ditches, and fuch like impediments, so that the front of your broad-fronted phalance must needs be diffolued: whereas no difficulty of wayes can hinder the passage of a Herse, the the front whereof may be narrowed (according to the ground you march in) as you lift. s Alexander being to lead his Army against the Thracians, that & Arthurs. had planted themselves in the mount Emus, was faine to narrow the front of his phalange, according to the way that led vp to the Mount: The same did h Agefilaus paffing through the freights of Mantina; the Hiftory is by & Zenoth bil. me recited before in my notes upon the 26 Chapter Panimenes likewife lea- eres 16.601.D. ding his Army through Phocis toward Thebes, and finding that the Enemy had Popents.385. taken and possessed a place called Philobaoton, that had two streights leading toward it, one of which the Enemy held with a gard; casting his troopes into a Herfe of hias Tes Tiens Ballinas, making the bulke of his Arm flender, and fit to march, Shaped him seife to the right hand, as though he ment to hold on to that passage. The Enemy therefore leaning the left hand streight, which they had in gard, ran with all fored to the right hand to ftop his passage; but hee taking the opportunity, specded hastily to the left, and conveyed his Army thorough without danger. Many like examples of Herses accommodated to streight wayes, where a broadfronted Phalange cannot march, are to be found in Histories. The Orthiophalange or Herse was also much seed in an ascent against a hill which the enemy possessed: and in this sence are oplice word deepe. Companies taken in the Greeke writers, especially when a whole Company is put into a file, and 3 or 4 or more files laid together to make an Orthiophalange, in which forme they vsed to mount vp against hils. Many examples be in their Histories of beating off Enemies from hils in this forme. Cyrus th'elder vsed it a- xenoph cyron. gainst the Chaldrans; b Xenophon against the Carducans; Cherisophus in pas- 3.71.D. fing the river Centrites, which river divideth the mountaines of the Cardu-Lanza D. cans from Armenia: the Gracians against the Mosynecans, that inhabited cer- Kongh dend. taine Mountaines which the Gracians were to mount. Prolomey against the 2 Kenoph dexp. Indians, that embattelled themselves vpon a mountaine to resist the invasion 15:352-4. of Alexander. And a notable example of an Army afcending against a and a specific Mountaine, is described by f Xenophon, in the fourth booke of the ascent of a xenophot exped-Cyrus; Herelateth that the Cholcans had taken vp a high Mountaine, and Lasten there imbattelled their Army to the intent to stop the passage of the Gredans in their returne out of Persia: The Grecians at the first ordered themselves into a Phalange, (a broad fronted battell) meaning in that forme to make their way. But afterwards the Chief-taines calling a Court, adusted vpon their best course of fighting: Xenophons opinion was, that laying ande the forme of a Phalange, it would be best to order themselves in Companies & drawne costing street out in file. For a Phalange, said he, will some be broken, by reason of the inequality of the way, which in some parts of the Mountaine will be found case enough, in other hard to afcend. And the souldiers will quickly be discouraged to see the Phalange difordered, in which shey march: Besides, marching in a large front,

T. HITCH

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And reads Norway secontrated.

1800 light-ar-· A fong or hyanne to Apello vied by the Gretions when they Enemy-Iul Pol. the Scholiaftes of Thucydides faith there were two Prans.one to Mars before to Apollo after Victory.L1.

the enemies, that exceede vs in number, will over-front vs, and vie their multitude to most advantage : In a narrow front it will be no marnaile to fee our Phalance cut afunder with missine weapons, and with men ordered in battaile to charge vs: whereby the whole Phalange will be distreffed. Therefore, as I faid, I hold it best to put the Armie into Companies fretched out in depth giving to each Company fuch difrance one from another, that our wings may over reach the vetermost points of the enemies battaile : and let enery company make choice of their fitteft way for afcent : As for the spaces between company and company, it shall not be easie for the enemy to conney himselfe into them, all the companies on all fides (in case he enter) wrapping him in betwirt them : and if it chance that any company be distressed, the next company is to Succour and aide it - Ngo fay, that one company attaine to the top of the hill, you may be affured, that no enemy will keepe his ground. This Counfell was affented to by all; When therefore every man had taken his place, and the a companies were laid out in their suft depth, the armed amounted to about 80 companies, in every of which were reckoned almost 100 men : The Targeteers and Archers were divided into three bodies, the first to march without the armed of the left wing, the second without the armed of the right , the third in the midft, every body confisting of well-nigh 600 men. After prayers made to the gods, the fouldiers advanced, finging the Paan; Then Cherisophus and Xenophon (leading the point of the Gracian battaile) and the Targatiers with them, who over-reached the enemies wings, hasted on a pace, and the enemy perceiuing it, extended their wings to meet them, and by that meanes were di-Bracked some to the right, some to the left hand, leaving an empty space in the middest of their Phalange : the Targatiers armed after the Arcadian manner, led by Æschines the Acharnan, seeing the enemies battaile dissevered, and imagining them to flye, ranne forth with all speede, and were the first that gained the hill: they were seconded by the armed Arcadians, commanded by Cleanor the Orchomenian. When the Enevictory, the other my faw them come running on, they furfooke their ground, and began to shift for themselves, one one way, another another: The Grecians having gained the Hill; encamped there. Hitherto Xenophon, out of whose practice the best addresse against an enemy, that possesset a Hill, ouer which our Army is to march, may be learned: In a broad-fronted Phalange it is hard to proceede, both because of the inequality of the ground, which will eafily breake the phalange, and difiovnt all the parts thereof, and also for that the enemies weapons throwne from the higher ground will not lightly miffe fo great a body, and great stones, and other masse, tumbled downe, will beare downe and make ruine of what soeuer commeth in the way, impossible to misse in such an extension of length, and thronging of the Army: to lead in one and a continued Herfe is no leffe dangerous. A few men, and those onely in front shall come to fight against a multitude of enemies, who will over-front and charge them on all sides. Xemphons Counsell then is to make divers bodies, and to order them so seuered in front and flanke, that they may over-front the enemy, and not be parted afunder with the vneuennesse of the ascent, nor yet proue too faire a marke for the enemies weapons. The Bodies are declared to be Companies each of 100 men; these so divided one from another in distance filewise, that the vttermost bodies on both fides might be able to ouer-reach the points of the enemies wings, and to make choice of the best Ascent toward the height of the hill. Further, the forme of ordering the bodies is fet downe. They were stretched out in depth (options Northios lochos is here taken for a Company ordered in one file; and it fignifies as much

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as referenced, a Company ordered one man fingly after another : which plicale is vied by Venophon elewhere: and in the fame fence Thursdides wieth the phrase zone cross of placing thips one in a direct line after another situatoran, which his fee lass dots of placing imps one in a circume and another comparation, which is its specific fall pales in the spec bins likewise of Ships harfi the same phrase, with wind in to be placed one of continued ter another; and in the fame place onder. Yet this pallage out of Xemphon. Co. where he mencioneth when wow, hath a divers fignification from the common viage of and a size among thother Grecians. It agreeth, in that, they led their Companies freeched out in file; it differeth, in that Zenophons files were placed in diffance one from another, and had all an equall front in the manner of a Plagio phalange, where in the other examples they were loyned, to . Abred the end to make an orthiophalange, and in feuerall bodies to follow one ano- tel Bertele, ther. I deny not that when we are otherwise taken in the wars of the Romans

described by the Grecians.

Sof Scipio ordering his battell against Hanniball in the fight of Africa, is sapies reported by Appian to have disposed his Army into Maniples, distributed in the into three kinde of bodies, the Manuples to stand opling Noxus, one directly after another. How they flood 8 Polybius shewes, describing the same batraile; \$700 LS 487 He faith, that Scipio ordered the Hastati and their ensugnes first of all the rest, and in front, and gave internals to their maniples; behinde them the Principes, not against the internals of the Hastati, as the Roman manner was, but behinds them in a right line (because of the multitude of the Enemies Elephants :) and lastly the Triary. On the wing of the left flanke he ranged C. Lelius with the Italian Horfe under him: on the right Massanilla, and all the Namidian Horse, which he commanded. The interuals of the first Enfignes (that is, of the Hastati) he filled with the bodies of light armed, commanding them first to undertake the fight; and in case they were not able to with stand the affront of the the enemy or of the Elephants, be willed them to retire; some, that could prevent the rest with speed, through the direct internals of the maniples to the reare of the army; other, that were in a manner surprised, to the flambes; mere the Enfignes. This ordering of Maniples one directly after another, fo termed and described by Polybias, Appian calleth spokes which notwithflanding; if truly examined, cannot according to the Grecian practile come within the compasse of that name. For the Grecians, as I laid, drew their Companies severally each into a file; and laying source, or five, or more of them together, made a body, the depth whereof much exceeded the length, or breadth, the front being of 4.5. or 6. men in ranke, the depth of 100, whereas the Romans, as appeareth by Polybius, kept their ordinary manner of embattelling, fauing that they placed their principes not against the internals of the Hastati, as their custome was, but directly behinde the Maniples of the Hastati, to the end the Elephants of the Carthaginians might haue an empty and void lane, as it were, to passe through their whole Army: As for the Roman Maniples they confifted of two parts loyned together, which they called bordines, and enery ords contained 60 men, commanded by a Captaine; fo that the Maniple had in it 120 men, and two Captaines or Centurions. These 120 men being digested into files, containing 10 men a peece (for that was the length of file, and the depth of the Maniple) make 12 files, which stood one by another ranged in front, not stretched one after another in depth. But because the Maniples of the Hastati principes. and the Triarij; flood directly one after another, therefore Appian called

them of the sixes, either out of the ignorance of the manner of embattelling amongst the Romans, or else because the Grecians in their writings reduced the order of the Roman embattelling vnto their owne vsage. So they called a Tribune of the Roman Army a Chiliarch, albeit a Chiliarch among it the Grecians and a Tribune amongst the Romans differ very much, as I have nored you the ninth Chapter of Alian: the manner of embattailing of the Army of Acilius Clabrica Roman Confull in the streights of Thermopyle. commeth neerer vnto the Greekish forme: 5 Appian describeth it thus; An. tiochus having fortified the streights of Thermopyle with a double wall, and drawne forth his army orderly for fight, to make good the place against Acilius; Acilius diuided his troopes into three parts, and giving one part to Cato, another to Flaccus, the one to make his paffage on the one fide of the Hils, the other on the other, himfelfeled the ordinary way against Antiochus; and framing of his owner part options some (which marmer of embattelling alone, faith Appian, feruetn for streight wayes) he pushed on and forced his Enemy to retire, gained his Campe. The option Noxa here mentioned, are no other then the borthis phalange, which Elian hath fet downe in this Chapter, namely, having one Mample (or if the streight permitted not a Maniple of 12 files to march entirely in front) one ordo confifting of fix files to advance, the rest following in the same kinde, as the fashion is of the right induction, remembred by Elian hereafter in his 36 Chapter. Now albeit that forme come neerer to the Gracian forme, yet it is not the fame. the one filling the way with the Maniple or Ordo, as it fell out, in the fame figure, that it stands in the field, the other changing the order of the field, drawing the Company out into one file, and ioyning other Companies with it in front, as many as the way would receive: So that the Grecian had 100 in depth of the body, the Roman but 10. We are not to pretermit: that albeit Acilius vied this forme to dislodge Antiochus from the Hill, yet he trufted not to it alone, but dividing his Army into three parts, he caused two of them to march vp she bils on both fides, himselfe in the midst, to the end that one part might gaine the beight over Antiochus head, and so make him forfake his ground. Thus farre of the vie of these two kindes of Phalanges or battailes: it remaineth to shew, how one of them may be transformed into another.

The next preceding Chapter teacheth, that out of doublings of Rankes, the length of the battell ariseth, as the depth out of doubling of files. I have shewed the manner of both in my notes you the 8 and 29 Chapter. And this manner is easie in a lingle Company, or in a small Army: In great Bodies it hath no great vie, let the Example be of a Phalangarchy, which is the fourth part of a fourefold Phalange, and containeth 256 files. Double the files once you shall 128 files, and 32 men in depth, and but 3 foot diftance in ranke. The second doubling bringeth forth 64 files, and as many men in depth, but the distance betwixt ranke and ranke is but a foot and a halfe. Beyond this doubling you cannot proceede; for belide the confusion of places of officers, which are in number aboue 1 250 in a Phalangarchy, the internals betwixt man and man, will not conveniently allow about two doublings . your open order betwixt man and man, wherein they stand at first, giveth but six foot : The first doubling takes away three foot from every internall, the fecond leaveth but a foot and halfe. And confidering that when the battell is closed for fight, the neerest distance betwixt ranke and ranke ought to be no lesse then three feet,

in regard of handling of weapons (as I have thewed before our of Polybins.) The lecond doubling, albeit it yeeldeth roome from the bodies of Souldiers to in the fland in, yet it takes away the halfe of this diffance, but the third doubling all of the it the lowing but 3 quarters of a foot for each man to fland in, giveth not fo much ground as his body will possesse. So is it likewise of Ranks, which will not fuffer about two doublings fit for vie Llians file is of 16 men, double your rankes once, your file will containe no more then eight men, and every man shall have three foot distance from other in ranke, double them twice the file hath but foure men, and enery mans distance in ranke is no more then a foot and halfe, which as it is allowable in close order, fo admitteth it no third donbling, wherein the space betwixt man and man cannot exceed three quarters of a foot. As therefore the fecond doubling of ranks in a Phalangarchy albeit it extend the front of the battell, leaueth yet too small a depth to the Plaginphalanx or broad-ronted battaile, it containing no more then foure men in depth : fo the doubling of files twice fitteth not the Orthiophalange or Herse, as having 64 in depth, and as many in length, which number neither holdeth proportion of the depth manifold to the length of the Orthophalange or Herse. not yet by reason of the length hath conveniency to apply it selfe to streight waies; a thing that containeth the principall vie of that manner of battaile; which was the cause that antiquity vsed another course.

If the march were to be made out of a Plagiophalange or broad-fronted battaile, they framed a Herfe, by putting forth out of the right or left wing, first one Tetrarchy, or other body, which might march whole according to the largeneffe of the way; and after it followed from the fame wing, the reft of the files Army in the same kinde. If contrariwise a Plagiophalange or broad-fronted battaile were to be framed out of an Orthiophalange or a Herse, they caused the body which had the vaunt, to fland firme, and the rest following to fleeue vp by it on the right or left hand, till they all came to an even front : " Xenoph Cree-* Xenophon sheweth the manner in a Company, whose words are these in Eng- 12.55.4. lish : Then he (Cyrus the elder) beheld another Captaine leading his Company from civing the river fide to dinner, one fouldier following another in a fingle file, who when hee a see Au ana thought fit commanded the second, and third, and fourth file to seeme up, and make an * 10000 even front with the first; the file-leaders being new in front, hee commanded the balfe and the refiles to double the front, fo that now the Decadarches or leaders of halfe files flood in front, wixes here fig-Againe, when it seemed good, he commanded the quarter files to double the front : fo the affect of in the ascent of Pempedarches or leaders of the quarter of files led up, and the files marched on being di- Crim, and in the mided into foure parts. When they were come unto the Tent doore, hee commanded the Greeke History first file to single out againe, and to enter in, and the second to follow it single in the insgniseth a reare, and fo the third and fourth, till all were within the Tent. To cleare these words men of Xenophon, It is to be vinderstood, that the Company or wife here mentio- The File-leader ned, confilted of too men, and was did 'ed into four files or they each file commanded to containing twenty four men. The file had fine Officers the file leader the Decideral cadarch, two Pempedurchs, and the bringer up. At the head of the file stood the halfe searcethe file-leader, and behinde him directly five men; next after them flood the The two Pemps first Pempedarch and five men that followed him: in the middest of the file dates s men a (that is, after the Pempedarch and his flue) was placed the Decadarch (who rece; one the led the hinder most halfe sile, and after him flue men more? Lastly, the second after the are Pempedarch and five more after him, the last of which was the bringer vp. infront; the Now when Xenophon faith, that the whole Company followed by one or file were next the trife, he meaneth that the foure files were cast into one file, and followed one rease.

another in a right line, and by that meanes had 100 in depth, and but one in front. To bring it therefore to convenient length from this depth, the Captaine commanded the first file leader to make Alte, or to stand, and the second file leader with his file to advance, and to fleeue vp on the left hand and to front with the firstfile leader, and so both files to stand euen fronted in open order. The like he commanded the third and fourth file to doe; fo that the foure files being laid one to another, and fronting equally, the front or length of the body had foure men, the depth 24. Then, because he held this depth disproporcionable to the length, in fo fmall a body; he againe enlarged the front by doubling, commanding the halfe files to double their front. The Decadarchs hereupon marched up to the from, and ranked with the file leaders, and the halfe files following them ranked with the from-halfe files man to man. Now was the front eight in length, the flanke or depth twelve. To enlarge againe the front. and to make the length exceede the depth, he commanded the quarter-files to double the front : hereupon the Pempedarch's advanced marching vp with their quarter files after them, till they fronted with the file leaders and Decadarchs, and each man of the quarter files ranked with the rest, so that the front came to be of 16 men in length, the flanke fix men in depth, and each man in ranke had a foot and halfe distance, in file fix foot. And thus the Company from one file. as it were from an Orthiophalange or Herse, was formed into a long body fomewhat resembling a Plagiophalange or broad-fronted battaile. To reduce it agains to an Orthophalange or Herse, the Captains at the entry into the Tent (where the whole Company was lodged together) first directed the first file to march out, namely by the file leader with his five, then the first Pempedarch with his five, after him the Decadarch with his five, lastly, the fecond Pempedarch with his five; which drawing out of the Officers one after another in depth, with the parts of the file Commanded by them, immediately brought the file to the iust depth of 24. This being done, the second file followed the first in like order, and the third the second, & last of al came the fourth: and this was the manner of changing one forme into another: and albeit the example be but of a Company, yet is the reason all one in a Phalange or battaile; for as a company is compacted of many files, fo is a phalange of diuers companies; and as one file, in the example before, was led after another filewife, to is, or may, one company or other body be led after another, making thereby an Orthophalange or Herse: and as one file advanced to front with another to the intent to alter the forme of the Orthophalange, fo must the bodiesor companies sleeue vp one by another to make a plagiophalange or broadfronted battaile, yet want there not Examples in the Greeke History of turning the Orthophalange or Herse into a plagiophalange or broad fronted battaile, and by confequence the plagiophalange into an Orthiophalange. Cherifophus in the returne of the 10000 Grecians, that followed Cyrus the yonger into Persia, had the leading of the Vant-gard all the way. 2 He in his march in Armenia perceising the Chalyles, Taochians and Phasians had taken certaine mountaines, ouer which the Grecians were to passe, made alte some 30 furlongs before hee came to the Enemy, left encountring with the enemy, bee should fight with his army being led in a wing or Orthiophalange : He commanded therefore the Captaines that followed him with their companies, every one after another to b fleeue up their companies by his to the intent to cast the army into a plagiophalange or broad fronted battaile. When there are Commanders were come up, hee called a counfell to advise of the best

the Art of Embattailing Armies. course in proceeding. Here is the order of the Grecians march expressed to be in a Herse or Orthophalange, which consisted of many companies one following another; and likewise the manner of transfiguring the Herse into a broad fronted phalange, viz. the Captaines one after another fleening vp their companies by Cherisophus his company on the left hand, and making an equal front with him. And yet this example containeth no more, then the fleeuing vp of the Companies vpon one flanke. Cherisophus first made a Stand with his companie, having the vant ; the following Captaines fleeued vp their companies on his left hand, as the files did one after another in the other example. e Alexander vied another kinde of fleeuing a little before he fought the bat- am. 12.35 tell of 1st ; For, caufing the vant-gard first to stand, he commanded the rest c.p. of the foot to march vp to the front of the vant-gard on either flanke. The words lye thus in Arrian. Alexander having by midnight gained the Streights of Cilicia, setting out a streight watch upon the rockes, rested, and refreshed his army till morning : by day-breake he descended from the streights in the ordinary way, and as long as the passage was narrow, he led in a wing; afterwards the mountaines ope- " at alme: ning a greater distance, he enlarged his wing into a phalange by little and little still fleening vo the armed, one body after another to the fron; on the right hand toward the mountaines, on the left hand toward the Sea. The Horse all this while marched after the foot, but comming to ground of larger capacity, they were ordered on the wings. This manner of working to make a phalange out of Herse, was by drawing the following companies up on both flanks, on the right toward the mountaines, on the left toward the fea; so that it differeth from the other forme wherein the Companies were fleeued but vpon one hand. A third way of making a Plagiophalange of a Herse, I finde in Polybius, Machanidas the Lacedemonian . Polyb Ltr. Tyrant (faith he) being to fight with Philopamenthe Achaan Generall, who had fa-632.8. bioned his army into a broad fronted phalange, made semblance at first, as though he meant in a Hers to charge the right wing of the Enemies battaile; but approaching toolia to get neerer at a convenient distance, he brake off the hinder part of the Herfe, and facing it ways. to the right hand marched out, and led it out in length, and toyned it in equall front with his right wing, thereby equalling the left wing of the Achaens. In this manner of transforming the Herse into broad fronted phalange, the companies or bodies follow not one another, to fleeue vp to the front, but halfe the Plagiophalange is broken off at once (the reare halfe) and facing to the right or left hand, is led up and iouned in an euen front with the other halfe, not unlike to our viagein exercise, when we command our middle men with their balse files to face to the right or left hand, and marching out to double the front of our pattaile. Thus much may suffice for the names, vse and reduction of one

7 The Phalange Love.] There are two kindes of Loxes, or vneuen fronted Phalanges: The front of the one is figured in a continued right line stretched out bias-wise thus: The other hath as it were two fronts, formed out of two feuerall parts of the Phalange; the one advancing against the Enemy to begin the fight, the other staying behinde, and keeping the first ground, being ordered without the flanke of the first, that vpon occasion it may likewise aduance, and joyne, or else retire from the Enemy, and give backe; the figure shewes the shape of it : the last hath bin vsed by great Ge-

of these two Phalanges to another: The third Phalange mentioned in this

Chapter followeth.

· meganaris

4.334.4

8 der L 1.14. d.

nerals as a forme of advantage in fight. The first onely to win a passage, as I take it, ouer a river, or fuch like (where the broad fronted Phalinge could not passe) and to bring the Armie to a ground, where it might be ordered in better forme for fight. I will give one Example (for I read not many) of the first; & Alexander bauing conneied his armie over Hellespont, and entred into Phrygia, came as farre as the river Granicus. Three Lieutenants of Darius with 20000. Horfe, and well nigh as many foot, had embattelled themselves on the other side of theriver to hinder his passage : The river was full of depths and stallowes some what dangerous to enter, and the bankes on the further side high, rough, and seepie: besides, the Enemy was read ; with herse cast into a long or broad fronted phalange. and with seconds of foot to beat him backe, that should offer to clymbe the bankes. A. lexander being resolved to passe over, first ordered his troopes in a broad-fronted phalange . The right wing he commanded himselfe, and gave the command of the left to Parmenio; then putting the Scout-horse with the Peonians into the river, and after them a Phalangarchy of foot led by Amyntas the forms of Arrabius, and then Ptolomy the some of Phillip, who commanded the troope of Socrates, which troope had the V aunt of all the hor fe that day, him felfe with the right wing entred the river (the Trumpets founding, and the Army giving a shout) extending fill his battell bias wife against the Streame (well riwlanis meering) to the end the i er hans might not fell upon him, as he led in a wing, but himfelfe, as much as was possible, might come to in ne with them, having the front of his phalange extended in length. The Persians cast Darts from the high ground against the troopes of Americas and of Sociates, as they approached to the further banke, and some of them, where the ground was more euen, descended to the brinke of the river; fo there was thrusting and sholdering of Horsemen, some to ascend out of the river, some to hinder the ascent. The Persians let flyemany a dart, the Macedonians fought with fleares: The first Macedonians that came to hands with the Persians, were cut a peeces fighting valiantly, save only the sethat retired unto Alexander, who was now neere advanced with the right wing: He him leff first of all charged the Persians, where the principal strength of the whole body of their ho fe and the Generals of the field flood; about him was a fireng fight, and in the meane time one troope after another paffed eafily over the river. This passage of the History is long, and therefore I for beare to recite the rest, onely I adde that after a long fight the Persians were forced to flye, and the victory remained with Alexander. And this, that I have recited, may ferue to shew the vicof this kinde of Loxe-phalange, which was practifed by Alexander to no other end, then to gaine the passage of the river; for in this forme hee would never have fought, nor is there any prefident for it out of his battels ranged your euen ground, where he might have chosen the forme he liked best; but he e he was to get ouer a river, the enemy held the bankes on the other fide with 20000. Horseordered in a broad phalange; the river was full of snallowes and depths, and thereby hardly paffable; the bankes on the other fide sleepe and broken, and hard to afcend: Parmenio diffwaded him to lead in a wing or herse, and himselfe had no great fancie to aduenture in that forme. In a broad fronted phalange he could not, which must need shaue beene broken by the vnequall footing in the bottome of the river? What did hee then? hee thought best to choose a passable foord, and through it to put ouer the right wing of his Army flope-wife toward the further banke, whither when they came, they should proceed against the streame; that the front being still extended, and the rest comming up and loyning, he might front toward and

charge the Bnemy phalange wife. And that this was his meaning is plaine by Polyen, who rehearing the fame Stratagem, faith, that Alexander led his Polyet Army in that forme along the further banke to the end to ouer-front the B. nemies Horse-battaile: So that this kinde of Love or unenen-fronted Phalarge is no forme to fight in, as I conceine, but hath beene fornetimes taken yp, as a meanes to attaine to a ground fit for a better forme; as Alexander changed it as foone as he came to the banks of the river on the other fide.

The other (as I faid) great Generals have vied, and by it have gained great victories. I will adde an example or two, whereby the vic of it may more clearely appeare: Epaminondas the Theban in a field against the Lagdemonians, gained a famous victory by this forme : Diadorns Siculus writeth bindstell; thus, The Bæotians also being ready to fight, the battailes en both sides were fashioned 486.c. in this order : Amongst the Lacedemonians the Chiefetaines of the race of Hercukes had the wings (viz. Cleombrotus the King, and Archidamus who was the The Leceleme Jame of Agelilaus, the other, King:) On the Baotian fide Epaminondas wing a penians had by toculiar and choice kinde of embassailing, obtained a renowned victory by his martiall kings aconce. skill: For, selecting the best men out of all his troopes, he opposed them against one of the Enemies mings, himselfe resoluting in his owne person to try the fortune of the day with them. Against the other wing he set the weakest, commanding them to fight re- wowayer. tyring, and to give ground by little and little, when the Enemy came on to charge; framing therefore an uneven fromed Phalange, he determined to hazard the fight Abnesses with that wing, which confisted of his chofen Soldiers . The Frumpets founded, and the Armies gave a shout, and the Lacedemonians figuring a halfe Moone thrust out both their wings of purpose to coursen the Baotians, who with one of their wings reared, with the other ran forth to some with the Enemy : after is ming, the Victoria bung a good while doubtfull thorough the valour of both parties, notwithstanding Eparninondas by the manhood of his people, and the "thickmeffe of his battaile having . The Beo the better, many of the Lacedemonians fells, for they were not able to endure the were so deepe, weight of the refolution of these chosen men, yet so long as Cleombronis lived, and nines it Lamping had many to soyne Targets for his defence, and ready to dye before him, the fingy of bill graits 1960 victory was uncertaine: But after he had caft himselfe into all kinde of dangers, and ges could not force the Enemy to retire, fighting heroically he was borne to ground with many wounds, and so ended his daies: There arose a flocking and concourse about his body, and multitudes of dead men were heaped one vion another. That wing, being wow without a Commander, was hardly laid to by Epaminonidas, and first with plaine force somewhat disordered. The Lacedemonians on the other side, branchy bazarding for their King; recoursed his dead body, but could not attaine to the victory; as also the selected band, albeit pronoked by the vertue and exhortation of Epamimondas, it vied extraordinary valour, yet with much adoe did it force the battaile of the Lacedemonians, who first giving backe, somewhat disordered themselves; at last many falling, and no manbeing to command them, the whole armie tooke it selfe to fight. Epaminondas his soldiers followed the chace, slew many, made themselnes Masters of the field, and carried away a notable and famous victory. Their bonour was the more because they fought with the most valiant men of all the Grecians, and ouercame them being many more in number then themselves, comirary to all ment expestation; but of all other Epaminondas was the man that morited most praise, who by his swine valour and martiall skill, won a bassaile against those Generals of Greece, which to that day were held inuincible. This Testimony of the Lexe phalange is formewhat long, but the worthinesse of the circumstances will, I hope, beare

me out to recite it, wherein the forme agreeable to Elian is first to be noted. as advancing one wing against the Enemy, and holding off the other; albeit it goe a little further then Elian prescriberth, in that the wine kept off, stood not still, waiting time to come forward, but when the Enemy came vp, loyned with him, guing ground of purpose to distract his phalange, and on that fide to busie him with a flow fight, lest happily he might give vpon the adverse flanke of Epaminondas and fuccour his owne partie that already was in fight. It sheweth besides, the advantage of Military skill; for the Lacedemonians. Masters of Armes at that day in Greece, having fashioned a halfe Moone, and imagining in that forme to inclose the small number of the Bastians, and to charge them on every fide, Epaminandas with his Loxe Phalange fo plyed the front of their wings, that the rest of the balfe Moone, being neuer able to firike stroake, became vnprofitable: It shewes further what kinde of bartaile is fittest to encounter the halfe moone: Lastly, it hath the reason and vse of the Loxe phalange; that is, to charge one of the Enemies wings with the best and strongest part of our forces, and at the same instant to annoy him with the other wing, thereby to embarre him from giuing aide to his peospied Li7.59. E ple that were in fight. & Alexander vied this forme at Gangamela, beginning the fight and victory with his right wing, and after with his victorious troopes fuccouring his left wing, that was in danger to be routed by the Perflane. The like forme with the like successe was vsed by Antigonus against Euments; it is a battaile worth the rehearfing, but I have beene long in the Example of Epaminendas, and therefore referre the Reader to the quotation. Demetrius framed the like battaile against Prolomy and Selencus, albeit he were # Dled Sic.l.zg. frustrated of his hopes in the eveneby the forefight of Ptolomy, who opposed his choisest troopes against that wing of Demetrius, which was first to vadertake the charge. Hitherto of these three formes of Phalanges, see the figures. in which albeit the two first be portraited without internals, yet you must in the bread fronted Phalange vaderstand the three internals vivall in the Ma.

> Parembole, Protaxis, Epitaxis, Prostaxis, Entaxis, and Hypotaxis.

cedanian four efold Phalange: and in the herfe the faces betwixt the reare of the

bodies that lead, and of the front of those that follow.

CHAP. XXXI.

Arembele, or infertion, is, when Souldiers being placed in a body, we take some of the hindmost, and order them within the distances of the first, drawing them up in an equall front. (2) Protaxis, or forefronting, is, when we place the light-armed before the front of the Armed, and make them forestan-

ders as thefile-leaders are: (3) When we order the light armed behind, it is called Epitaxis, as it were an after-placing. (4) Prostaxis, or adioming, is, when to both flankes of the battell, or to one flanke, some of the hindmost are added, the front of them which are added lying even with the front of the bartell. This addition is called Proflexis. (5) Entaxis or infition, is, when it feemeth good to fet the light Armed within the spaces of the Phalange, man to man, (6) Hyperaxis or double-minging, is, when a man bestoweth the light armed on the wings of the phalange, fo that the whole figure refembleth a threefold gate or doore.

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"His Chapter sheweth the inlarging of a Phalange or battell; by divers placings partly of the armed, partly of the light-armed. It is not hard to be vinderstood; the rather because most of the alterations here mentioned are spoken of heretoforceither in Elian, or in my notes: Sixe formes are here set downe, two by changing the place of some of the Armed, the other foure by changing the place of the light-armed, the armed are altered by b Parembole or Proftaxis, the light armed by Protaxis, Epitaxis, En- Doubling the taxis, and & Hypotaxis; what the fignification of each is shall be thewed in front by middle the notes following.

e notes tollowing.

1. Parembole.] This must alwayes be of armed, which are taken bin the *Forefronting.

Placing after.

Placing after. reare of the Armed, and inferted betwixt the files of the front : of this kinde to listing beis the doubling of the front by middle men with their halfe files whereof ween. Ælian hath spoken in the 29 Chapter, see the figure there.

2. Protaxis or fore-fronting.] I have shewed before in the notes upon the wings. feuenth Chapter, that the light-armed were diverfly placed in the front, in the reare, on the wings, within the battell; when they are placed before, it is called Protaxis, fee the figure here : " Prolomie and Seleucus being to fight a- " Died Sielle. gainst Demetrius, who had many Elephants, placed the light armed before, to 1114. the intent to wound the Elephants and turne them away from their Phalange : fo Alexander, fo Darius, at the battaile of Islas, placed darters and slingers before the fronts of their phalange: they ferue greatly to annoy the Enemy being so placed, especially being not charged with horse or pikes; if they be tharged with either, they are to retire into the internals of their owne bartaile of pikes : See Ono funder cited by me in my notes vpon the / Chapter of this Booke.

3. Epitaxis.] Ordering of the light-armed behinde was the viuall manner of the Macedonian Embattelling, from whence they drew them at pleafure to any place of feruice : fee the 7 Chapter.

4. Prostaxis] it is, when armed are taken from behinde and laid to one or both flankes of the battell fronting even with the front thereof, which is a doubling of rankes, as is before thewed, done when the hinder halfe files divide themselves, march out and front with the fileleaders, or else march out entirely without division. they is anywaite

Entaxis] Incision is alwayes of the light armed into the spaces of the armed. It is all one with parentaxis, another Greeke word vied in the fame fence.

6. Hypotaxis.] Placing of the light armed on the wings was much vied in ancient time, as the manner is also at this day : but Elias would have them so placed, that the eminency of them should make a hollow front in the battaile: Patritius taketh Hypotaxis to be the placing of the light armed in the reare, which seemeth to be a mistaking, both because the placing of them in the reare is in this Chapter called Epitaxis, and also because there being foure manners of ordering the light-armed, one in the from, another in the reare, the third within the body of the Photange man to man, the fourth in the mings: if this ordering should be understood to be behinde the Phalange, there would be two kinds of placing of the light armed in the feare, and none

5 Placing on the

of ordering them in the flankes: Besides, when Llian saith, they are placed wind The Median The Galagyes, vinder the mines of the battell, he fufficiently expresseth himselfe, the flankes of the battaile on both sides being the vttermost parts

The Vie, and advantage of these exercises of Armes.

CHAP. XXXIV.



Hele precepts of turning about of faces, of wheeling, and double wheeling of the battaile, and of reducing it to the first poflure, are of great vie in (1) fodaine approaches of the Enemy, whether he shew himselfe on the right or lest hand, or in the reare of our march. The like may be faid of Countermarches, of which the Macedonians are held to be the inuen-

ters of the Macedonian, the Lacedemonians of the Lacedemonian, from whom the Appellations are accordingly drawne. The Histories witnesse, that Phillip (who much enlarged the Macedonian Kingdome, and ouer-came the Grecians in a battaile at Cheronea, and made himselfe Generall of Grecia) and likewise his Sonne Alexander, who in short time conquered all Asia, made small account of the Macedonian countermarch, vnleffe necessity forced it; and that by vic of the Lacedemonian, they both became victorious ouer their enemies. For the Macedoman countermarch, the Enemy falling vpon the reare, is cause of great diforder, in asmuch as the hindermost marching vp to the front, and making shew of running away, it more incourageth and emboldeneth the Enemy to fall on, for feare and pursuit of the Enemy is ordinarily incident to this Countermarch : but the Lacedemonian countermarch is of contrary effest; for when the Enemy shewes himselfe in the reare, the file-leaders with their followers brauely advancing, and opposing themselves, it striketh no fmall feare and terror into their mindes.

NOTES.

ALL the foure motions of a battaile; Facing, Countermarching, Doubling, and Wheeling, are before handled: In this Chapter Alian briefly

rehearleth the vie of them, especially in

1. Sodaine approaches of the Enemy.] If the Enemy come fodainely vpon vs, he must direct himselse either against our front, or our reare, or our flankes. If against our from, we neede no other motion then that whereby we may strengthen our front, which is viually done by doubling of rankes; we march for the most part in a herse, in which forme there cannot come many hands to fight: and that is the reason why it is accounted the weakest forme to joyne with the Enemy. Doubling of rankes helpeth that defect, and bringeth as many hands to fight, as the proportion of forces will allow: If against the reare, and time streight you not, and your battell be in open order, you have the vic of a countermarch, which bringeth the best hands to *Countermarch fight; for the File leaders are effected the flower of the Army : your battaile being in order or close order, you are to wheele it about to your right or left

b Doubling of e Against the

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hand, and so to oppose the front against the Enemy. But in both these motions the caution of Elias is, that the Enemy furprize you not whileft you are in the action of countermarch or wheeling, left taking his advantage, her charge you being in disorder. Therefore if he come so neere, that you have no liberty to countermarch or wheele, your onely refuge is to "face about to the " Facing. right or left hand, for so he shall not be able to give vpon your backe: If the enemy appeare vpon any flanke, countermarch of the Front will not availe, much lesse doubling against the flanke of ranks, or files, but you must either wheele your Front to the flanke, or if you have not time enough fo to doe. you are to face your battell to that hand: The vie of these motions hath been

handled in their feuerall Chapters more at large.

Of the Signes of Direction which are to be given to the Army, and of their fewerall kindes.

CHAP. XXXV.

E are to acquaint our Forces both Foot and Horse, perfectly with the(2) voice, and perfectly with (3) visible fignes, that whatfocuer is fitting, may be executed and done, as occasion shall require. (4) Some things also are to be denounced by the Trumpet: for fo all directions will be fully accomplished and fort to a defired effect. (5) The fignes therefore which are delinered by voice, are most euident and cleere if they have no impediment. (6) But the most tertaine and least tumultuous fignes are such as are presented to the eye if they be not obscured. The voice sometime cannot bee heard by reason of the clathing of Armour, or trampling or neying of Horles, or tumult of carriage, or noise and confused sound of the multitude, The visible fignes also become many waies vncertaine, by thicknesse of ayre, by dust, by raine, or snow, or sunthine, or elfe through ground that is vneuen or ful of trees, or of turnings. And fometimes it will not be easie to find out figues for all vses, occasions eftsoones presenting new matter, to which a man is not accustomed: yet can it not so fall out, that either by voice, or by fignall, we should not give fure and certaine

MOTES.

I He ordinary motions in a Phalinge are all represented by Alian. Now commeth hee to speake of Signes, which direct, and are meanes of effecting all these motions, and without which the Army is no Army but remains a body vngouernable, and may aptly be refembled to a Shippe that hath no rudder : For as a Ship in a tempest is driven by all windes, toffed by waves, throwne enery way vpon rockes, vpon fands, vpon dangerous shoares, that is not guided by the Master, who standeth and moueth at the helme, So an Army not directed by fignes, and forecast of the General is carried away through ignorance and violence of affection, sometimes of anger, sometimes of seare, formerimes of reuenge, and other vnbridled defires, and breaketh or elfe fal-

b Polyb. 1. 9.

555.B.

feth into confusion through disorder, working little against the enemy, nay rather giving him meanes of a certaine victory. The shippe is like the Army. the Generall like the Mafter the words of Direction like the Rudder guiding all and every motion of the Army: For the Army being a body of many heads. whereof every one hath a feuerall fense, hangeth together not by the naturall coherence and knitting of one member to another, but by artificiallioyning . of man to man, file to file, body to body, whereby it is gathered together into one Masse, and figured into many members and ioynts, and ruled not by the reason and judgement of it selfe, but by the reason and vnderstanding of the Generall. So that no man is to demand why this or that is comman. ded but is to execute it alone for this Cause because it is commanded: The Generall then being to Command, and direct the actions of the whole Army. ought to finde out meanes to speake and discourse with them all at once, in such a language, as it were, that all may vnderstand at once. For the occurrence of warre being 'oftentimes fudden, and once flipt by, irrecouerable require fudden meanes of speedy direction, that nothing fall out so vnlooked for, but the Army may have notice how to prevent and avoid, or else to turne it to their most aduantage; the rather because in warre, safety and life come in question, in losse of which, no pardon of negligence can be admitted. And feeing there are two principall fences of advertisement the eare the one, the other the eye; the eare to heare all manner of founds, the eye to discerne all manner of colours and shapes, it hash been the witty inventions fo antient Generals, to informe their Armies by the one, and by the other: by the ere when there was no vie of the eare; by the eare when the eye could not be informed: The true observation and vse of these signes availe much in warre. Yegetius faith, that nothing profiteth more to victory, then to obey the admonition of figures. Former experience hath taught, that the neglect or error of fignes, bath brought in great inconveniences, and quite overthrowne the enterprifes in hand. Polybine remembreth it in Aratus the elder, a Generall of the Acheans, Cratus, faith hee, the Generall of the Achaans, feeking to get the Cynethian City by a plot, agreed with those of his party within the Citie, upon a certain time to come by night to the river that runneth by Cynethe there refreshing and staying his Army a while, and that those within taking their time, should fend about millday out of the gate fecretly one of their companions, to stand in a cloake by a hill appoinsed, which was not farre from the Citie, to give advertisement to Aratus to march on; and that the rest about that time should lay hands upon the Polemarches, (that weed to guard the gates) while they reposed themselves and slept : And that this done, the Acheans (bould with all freed hasten to the gates, out of their simbush. Thefe things concluded, and the time approaching, Aratus came accordingly, and hiding himfelf e by the river, awaited the figuall: About the fifth houre, one of the Citie an owner of the spe, that bore extraordinary fine wooll, & were viually feeding about the Citie, came out of the City vate in a cloake, defirous to freake with the Shepheard about some private bufinesse of his owne, and standing upon the same hill, looked round about for the sheepheard. Aratus and his folke imagining this to be the expected figuall, ran in all haft toward the Citie-but because nothing was ready within, the gates were quick! hut, and not onely Aratus miffed of his purpose, but the Citizens also that conspired with hum, fell ime great miffortunes, being taken with the manner, and prefently brought forth and parte death. This may be an example of error and misprisson of the signe: Of the neglect, and likewise of the like error and misprission, there is a notable

example in *Cafars Comentaries in the fiege of Alexia, Where Cafar hauing * Cafar debell. won the Enemies campe, lying upon a hill neere the Towne, founded a retreat to his army that was in fight : the Enfignes of the tenth legion made a stand, but the Souldiers of the other legions not hearing the found of the trumpet, by reason of a valley, beyoud which they were; were yet held backe by the Tribunes and Legats, as Cafar had given direction. Notwithstanding, being puffed up with the hope of a feeedy victory, and with the flight of the Enemy, and their happy battailes of former times, thinking nothing fo hard that it might not be atchieued by their valour, they made no end of their chace, till they came neere to the Wall, and Gates of the Towne; and some of them entring at a gate, other some clymbing up the wall, imagined they had gotten possession of the towne. In the meane time the Enemies forces, who were busie in fortifying without on the other side of the towne, being acquainted herewith by message, fent their horse before, and followed after themselues, and in great numbers charged the Romans : The fight was hard, the enemy trusting to the advantage of the place and to their number, the Romans to their valour, when on the sudden were seene on the open side of the Romans the Heduan Horse who served in Cassars Armie, and were by him sent on the right hand to get up the hill another way: they by likenesse of their armour put Cafars souldiers in a great feare. And although it might easily be discerned, that their left shoulder was unarmed, which was the signe of such as were friends, yet the Romans conceived them to be enemies, and to we that device onely to ouer-reach and entrap them. Being oppressed on all hands, and 46 Centurions staine, Three were to they were beaten from their ground with the loffe of few leffe then 700 men. Cafars Centurious in a Souldiers here offended in both kindes in the neglets of their Generals Command, which he gaue by figne, and in mistaking the figne, which was vivall for the Heduans to be knowne by. Gafars judgement of these two faults appeareth in his speech, which he made to his Army presently vpon the losse; in which he reprehended their rashnesse, in that they would needs take upon them to indee how farre they were to proceede, and neither be held in with the signe of retreat that was given, nor yet be commanded by the Tribunes and Legates. He shewed of what force the disadvantage of ground was, and what his opinion was before this time at Auaricum, where surprising the Enemy without a Generall and Horse, he let an assured victory flip out of his hand, because he would not hazard, no not a small loffe in fight upon inequality of ground. As much as he admired their braue mindes and re-Colution, whom neither the fortifications of the Enemies Campe, nor the height of the Mountaine, nor the wall of the Towne could bold backe; fo much hee reprehended their presumption and arrogancy, in that about the victory and issue of things, they preferred their owne conceits before the opinion of their Generall: For his part he required aswell modesty and continencie in a Souldier, as valour and magnanimity.

So Cafar infinuating that obedience and bredfulnesse were two principall vertues in a Souldier; by the one to be ready at all commands, by the other to execute with discretion what was commanded: by want of heedfulnesse they perceived not the ligne of retreat which was proposed vnto them, and mistooke the marke of the Heduans, whom they esteemed for their foes; by want of obedience to their Officers, they incurred the danger and loffe which they sustained: diligent care therefore is to be had of signes, by which the minde of the Generall in all directions is declared, and as it were fet before the eyes of the whole Army.

The Inventors of the Signes of Warre were many. The Enfigne was invented by the Egyptians, as I have showed in my notes vpon the 9 chap, of this

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· Onefande.25.

Polemerches.

L echagi. Pentecoñers.

Veget,1.3.6.5.

Booke, where also the reason of the invention is given: "The order of an Army, the giving of the figne, the watch, the watchword was invented by Palamedes, the trumpet by Tirrhenus the Sonne of Hercules:

To give signes to an Armie pertaineth, as I have shewed, to him that is the Governour thereof, that is, to the Generall. The manner how signes were by him giuen, appeareth in bonofander, I will recite his words : Let all signes, secondificant quoth he, (he meaning by voyce) and by fignes be delivered to the Officers of the Comie; in afmuch as for a Generall to goe up and downe and proclaime the figne to

all, is the part of an unwife and unexperienced Man, and both time is loft in demouncing it; andit is often a cause of tumult, whilest every man asketh what the signe is. Besides, one addeth something to the Generals words, another diminishtth them Les case \$ 186 through ignorance. Les hath almost the same wordes, at least the same

fence, and as I take it, hee borroweth them from Onolander. Onolander addeth, It behoueth him to give the word to his highest Commanders, who are to deliner it oner to the next to themselves, and they to their next inferiour Officers, till it come to the last; for so shall every one speedily, decently, and quietly

know what is commanded. And this was the manner of the Grecians, as may appeare by Thucydides, who describing the vsage of the Lacedemonians in giuing the word and fignes, of direction, hath thus, And prefently the Lacedemonians ordered themselnes in battaile, Agis the King commanding, as their law is; for when the King leadeth, all things are under his command, and hee gineth

Enomotation. Zenoph. Cyrop. 13. direction to the Polemarches, they to the Lochagy, who deliner it to the Pentecosters, and they to the Enometarches, from whom the Souldiers of the Enomoties have it: This was then the manner of the Grecians. How the Romans did deliver out * Polyb. 1.6.479 & their word you may finde in the fixt Booke of f Polybins. But because it pertaineth not to Elian, who intreateth of the Gracian discipline alone, I re-Lipfin ad Polyb. mit the Reader to my marginall quotation. The fiene was then delivered

from the Superior Officers to the inferior, and from them to the Souldier: the kindes of fignes that were delivered are reckoned up in this Chapter, being in number two; for they were presented either to the eare or to the ere; to the eare, as all founds, whether mans voice or trumpets, or other instruments of warre, which were presented for direction or motion of the Army. To the eye, as all mute fignes (fo they are called which have no found) which

were fet up to the view of the Souldier for direction likewife: Both of thefe kinds were either ordinary or extraordinary; ordinary, which had daily vie in the Army, as the Trumpet, Enfignes, and fuch like, as ferued for ordinary direction, Extraordinary, which were brought in as occasion was offered of new command: besides, some were delivered openly, as the vocall, semino-

call and mute fignes, which by proclamation, found of instruments, or representation were set forth to the whole army at once; some privity, as the word, and fuch like, which passed secretly from one to another, and were receiued privately in the eare. This variety was invented, that in case one kinde failed, or would not ferue, another might, as I have noted before

out of Suidas vpon the ninth Chapter, and as Elian teacheth in this Chapter. The ends of fignes are two, one to order and direct our owne forces, the

other to distinguish them from the Enemy.

Sigra Vecalia.

Because I have before spoken of the diversity of vocall and mute signes, it shall not be amisse here to shew the vse of them both by examples. And

And this is first to be noted, that the Gracians in governing their troopes, as much as they could, retained the vice of the voice. In publike directions they vied the voice of the Cryer; I have before noted it vpon the 9 Chapt. If the command required fecrecy, the Generall gaue it to his chiefe Commanders sceretly by word: Of this kinde was the siene deliuered to discerne enemy from his owne fouldiers in a battaile to be fought. " Xenophon wri- a Zemph. deny. teth, that at fuch time as Cyrus the yonger and Artaxernes were to ioyne hastes. battaile, Cyrus sitting on horse-backe a prettie disfance from the Grecian troopes, heard a murmuring noise running along through their whole battaile, and asking Xenophon (who was then present with him) what noise it might be, and what it meant, Xenoplion told him, that the Word was now given the second time: Hee wondering who had renealed the Word to the Enemy, defired to know what the new word was; Xenophon answered, it was Inpiter the Saujour and victory; which Cyrus hearing, I accept it, faith he, and let it be fo. The murmure here mentioned arose out of the delivering of the signe of the battaile, which being deliuered to the inferiour Officers by Glearchus, the chiefe Commander of the Grecians, and the Officers communicating it to the Souldiers, and the Souldiers one to another, went thorough the whole body of the phalange with a foft and stil noyse of them, that whispered it in the eares of their companions. Xenophon hath here fet downe, that the word was Iupiter the fauiour and victor; In another place he hath, Inpiter the Sauieur and Hercules the guide, for the sauth de and figne. To know who was an enemy who a friend, the fouldiers meeting one 16,36,5. another demanded the figne; if they delivered the word given by the Generall, they held them for friends, if otherwise, for enemies: Polyen telleth of Pagenti; one Acues an Arcadian Generall, who commanded his Souldiers to kill him, who. somer he were that should aske the word: so that he made the voice of the enemy serve for the word to his owne Souldiers. This figne was changed in every battaile, left, if still the same signes were vsed, the Enemy might happily come to the knowledge of them, and so be taken for friend, vnder colour whereof much treason might be wrought: not much valike the signe given in a battell to be fought, is the watch-word by night, which was viually deliuered to the first Officers of the Army, and by them derived to the rest, and so brought downe to the Souldiers, and was no lesse observed in a Citie, then in the Campe; in both which the same forme of watching was held, saue that in a Campe there were Sentinels per due, as we terme them at this day (the Grecians called them reservaces) who stood and watched without the trench of the campe; whereas the Cities for the most part had Sentinels watching onely vpon the wals or market-place, or other pieces of strength giving to, and receiving the word from the rounders. And as the signes of battaile varied vpon occasion, as the last example spesified, so the watch-words were often changed, for feare they might come to the notice of the enemy; for the Enemy having the Watch-word, might nourish spies in our Campe or Citie, and have certaine intelligence of all that passets there, as being taken for friends, because they carried the marke and tokens of friends; and they were changed not onely at the reliefe of the watch, which time is the viuall moment of varying the word, but oftentimes after the same night, for feare that a Sentinell might be fnatched vp without the Campe by an enemy, or else because of treason within, in reuealing the word to the enemy; oftentimes alto they gaue a double word, one to the fentinell, another to the round; and Popt 19,556.

the Art of Embastailing Armies.

2. Fneai c. 24-For the double figne and by-Egne, v Ane. c. 24, 25. 6 Ca. faub.in noticad Ane 6.4.00 24, 25.

Semueselle.

Chapter

273-

Died Sic. L. 12

formetimes added a mute figne, to the word, which kind they called material Brien, as it were aby fignes : and thefe are all the fecret fignes by word, which ! finde in the Grecian practife. For the other words, as the exhortation of the

proclamation, because it was weake and could not extend to the hearing of ths whose Army, and many things required for publike and quicke direction, Inframents of found were brought in. Vegetine faith very well. Becaute a multitude cannot be governed by voice alone in the tumults of fight, and because mismy things are to bee commanded and done, according to necessity, the ancient ele of at Xations found out how the whole Army by lignes might with freed have notice of ana follow that, which the Generall judged profitable for it. To helpe therefore the weakenesse of the voice, Instruments of found were brought in, which were of three forts among it the Grecians, the Trumpet, the Flute, and the Harge. The

Flute was vied by the Lacedemonians, the Harpe by the Cretams, (even to the loyning of battaile) all other Greeiums wied the Trumpet. And yet in the battaile during the time of fight, and in retreats, the Lacedemomans also vied the trampet. I have noted it before voon the , Chapter, where I have also touched in what occasions and actions the trumper was the signe. Now will I

give fome Prefidents of the particulars there remembred.

And first the Trumpet gaue the signe of remouing the Campe: which ap-Lete: 1 \$17. peareth by this proopt of Lee; When you will remove your Campe without turnult. you are to given commandement over night. And againe, the fame day in which you remove you are in the morning by day light to fignific the remove by found of the Trumpet three times, and then remove, and the Leaders and the armed are to goe out first, then the wagons, if any bee, and then other things which are carried for the refer of the Army. Thus Leo, for the remove by day. By night, the Army of the Grecian: that fought with Ataxerxes (as Xenophon reporteth) removed after this fort. After the death of Cyrus, the Greetane that followed Cyrus, being in distresse, and pinched with want of all things not knowing what course to take. and having a meffage from Arieus (a chiefe Persian Commander vinder Cyrus while he lived) to come and joyne with him, that they might returne together to Ionia, from whence they first began to march, Clearchus the Principall Commander of Grecians being determined to doe as Arieus counselled, and yet loth the enemy should know of his departure, gaue these dire-Ctions to the Army, This must be your course, faith hee, wee must got every rames his lodging, and sup with fuch promision as he hath, and when the Horne queth the figne to refe struffe up your baggage, as the second figne lay it wpon the carriage beafts at the shird enery man fellow his Leader. The Captaines and Corone's hearing this, did as they were commanded. This practife of Clearchus differeth nor much from Less precept; for hee wied three founds of the tramper, and to La

doth command: Charebus verturther shewith what was bee done at ears;

light, which the preventitieth, perhaps as a thing commonly knowne : Fe-

Generall to the Army, and the words of training delivered by the Cryer to the Souldiers, (for enery Company had a Cryer, because his voice was stronger and lowder then the Captaines,) they neither are secret, and seeme rather to be in the nature of Commands, then Signes. The fingle mord of battell and watch, I find to bee called by no other name then sursua, if it were a double word oversuadrates, if a mute figne were loyned to the word maggirithme. The voice then of a man was yied for a figne either when fecrecie was required, or else where the Crier might bee heard in discharging his duty by

fides. Clearchus vied all theie fignes for another end, then for which they were first instituted. The Grecians at evening discharged their workemen from their worke by found of trampet, and that was called the figue of reft : then they divided the night into foure parts, which were called foure watches, because their Sentinels were foure times releeved in a night, and at every reliefe the Trumpet founded. Now the founds of the Trumpet by night, Clearchus converted into figures for marching according to Leves prescription, and remoued his Campe, the enemy not perceiving it. Hence it appeareth then that the Campe was removed by the found of the Trumper: And yet I finde that Alexander brought in an alteration about this figne of remoduing : For *Curtius remembreth that Alexander at the first vied it, but perceiting afterwards, that this figne could hardly be differred by the whole Army, by rea- 2 Cartine 1.5. fon of the noise and stirring of the multitude, thought it better to sticke downe a Pole, and vpon the top of it to hang a coloured cloth, to give his Ar-

signe. The Trumpet likewise was the bigne of fight: And when all the Trumpets b zeno. (3.108. of the Army founded, it was called " of maximum, (in Latine Clasium;) and the eDied Sic. 673. whole Army hearing this figne, began to adurnce, and fung the Paan, and dense 4. gaue a flout, and prefently ioynedwith the enemy. The Greeke histories eue- d'exp. 165. Died. ry where give testimony hereof.

my notice, that hee meant to remove, and ever after held himselfe to that

Sic. 1, 1 3.372.

But wee are to note that this founding of trampers all weether, was before the Army came to joyne with the enemy, and that the end of it was to firike a terror into the enemy, and to encourage and firre vp the mindes of their owne people to fight; for in the time of fight, they yied another manner according to this precept of Leo, I would me admit you to found with many Trum- e Lee. the . of. pets, during the time of conflict, it being a thing both hursfull, and bringing with it 107. tumult and confusion : for thereby no Commander can bee heard. But if the place bee found plaine and even, the Trumpet of the middle battell will bee sufficient for all the other battels: if it be uneuen, or the winde, as it often happeneth, boiferous, or the noise of waters hinder the clecrneffe of the found, it will not bee inconnenient for a Trumpet to Beake in every battell. To that three may be founded in the whole Army. For the more that stilnesse is observed, the lesse shall the youger fort of Souldiers be diffurbed, or the bealts affrichted, and more terrible shall the battell seeme to the enemy, and directions be better heard and put in execution.

The Trumpes were therefore the fignes of fight, first all founding together when the Army went to charge, and afterward one or three at the most during the time of fight.

And as the figure of fight was given by the Trumper, fo was the figure of retreat.

This also is manifest by the stratagem of Pammenes. Polyen relateth that hee ? Polyen in Pamenes. deceived his enemies by ving a comerary course in sounding the Trumpet, then the manel 5.5.4. common manner was, commanding his Souldiers when hee founded the retreat, they bould goe to charge; when he founded a charge they should retreat in doing whereof, he greatly annoyed his enemies. The example of Agefilans cited by mee in my g Did Fig. 15. notes upon the 9 Chapter sheweth, that the trumper was vied for retreats: 475. and the History of Callicratidas reported by Diodor. Scic. in his 15 Booke; Saidas nameth this kinde of found given by the trampet, iraniana, as it were h suite here a calling backe, or a command to retire.

1. 2. 277.

L# 6-7-5-31.

"SPhortramper family was vied as a figne for the Army to fland, or to ree format descho bufinelle required. Albeit I must confesse, there were other visal feres belides the trumper in this cale: "Les laith, in exercife of Horfe, while place to move the Bedy. you we to give figure either with the voice alone, or mishishe Trampe ; or effect the bowing drope of a Bancroff, and fo to move them. Addit on would have them to make alse, you are to divit either with he voice, faring hand se with the Trumpet or with the noife of a Targetheaten upon with a found The like he speaketh of the exercise of foot in the same Chap and after in the . Ch. befaith you hall command the Souldiers to find by knowing estately the fond

of the Trampet & againstomone by the found of the trumper. So that although other figures regranging not marching & vetreat, yet the most comon figure was by the Truspes, Now we are to understand, that all fignes given by found to the care (excepeby the voyee) are called figna feminacaha, because albeit their found be lowder and stronger for the most part then the voyce is, yer they are not articulated as is the found of the voice. Hitherto of fignes that were given to the eare by the found. Now are we to speake briefly of mute signes, or those that were set up, as it were, a marke for the eye. Mute fignes were of two kindes: for either they were fimple, and vied by themselves, as an object of the eye above, or else they were mixed, and invited to lignes of found, and so communicated both to the eye and to the eare. Of the second fort were those whereof I have spoken a little before, and they were called memblyon, namely when a mute firme is added to a vocall: as when to the Word in the night is joyned some special gesture of the body. as holding downe or nodding of the head, lifting up the hand, putting off the hat, beauing up the skirt of the garment, &c. concerning which fee " 0me fander and theas. Of the first kinde were fienes prefented to the ere alone, which extended very largely, and ferued where neither voyce nor trumpet could be heard by reason of the removenesse of the place, these were called entite, figues properly, and openua likewife, because it was agreed by the parties, who gaue and tooke them, that they should have such and such fignification. The words be different, but the meaning and effect is all one; for as no figue can be, but there must be a giver and a taker of the figne, so in that respect the signes called mais by reason of the communication betwixt the giver and taker of the figne, may aprly also be tearmed oversua. And albeit I noted before that the figne of the battaile and the matchword was calledby no other name but suches, yet it suffres taken often for a mute figne alfo: Many occasions were of gining these ignes, and they were sometimes thewen by day formetimes by might, and in the day time they were formetime proposed in the battaile, sometime in other places, where they might be perceived. Arrian historieth of Alexander the Great, that at bis being in the Country of the Taulantians, his enemies Clytus and Glaucias, had with many borfe, darters, and flingers, and not a few armed men, taken the Mountaines and bigh places, by which he was to paffe in returning. The place was freight and wooddi, thut up an the one fide with a riner, on the other fide with an exceeding high mountaine, the fides whereof were very fleepe, fo that the Armic could not march with more then four armed in front. Alexander mar halled his troopes to 120 in depth, and ordering 200 horse on each wing, he commanded silence, and heede to be taken to his directions: And first he willed the armed to advance their pikes, then upon a " signe ginen to let them fall, and charge, then to turns them close knit to the right hand, then the Art of Embattailing Armies.

to the left, and sometime he moved the battell quickly forward, and sometime he monedit to the one wing, sometime to the other. And so fashioning it into diners shapes in sbort time, and at last casting it into a wedge, as it were, he led it against the Enemys who flood wondering at the speedinesse and good order of the divers motions; and now perceiuing the Armie to be led against them, abode not the charge, but left the hill, which he held, and fled. Here are mentioned seuen seuerall motions of the Phalange, which wee haue in practice at this day: I A luancing of Pikes, 2 charging of them, 3 first to the right hand, 4 then to the left hand, 5 moving of the battell forward, 6 mouing it to the right wing, and then 7 to the left. And all these motions were directed by a signe; what this signe was, may be doubted, because it is not expressed whether it was by voice, trumpet, or a mute signe. For my part I would not take it to have beene by voyce; for how could the voice be heard in fo great an Army as Alexander had (which according to Diodorus Siculus confifted of 30000 foot and 3000 horse) and was Biodor Socilize stretched out in depth, and had but foure armed in front: nor yet would I 566. imagine it to haue beene given by trumpet; because, though perhaps the trumpet might be heard of all the Army, by reason of the Eccho rebounding from the Mountaine and river, yet could it not fitly and cleerely diftinguish the found that should direct these seven several motions: I have before declared in what case the trumpet was employed. Let me with leaue therefore thinke, that it was a mute signe presented to the eye; as for the purpose a Coate, or other garment fastined to the end of a long staffe, the colour whereof being eminent, and the staffe being lifted alost might be perceived by the whole Army. The figne then advanced to the full height, might fignifie advancing of Pikes, which was the first motion. Being abased and held levell before the front, charging to the front, which was the fecond motion; held out leucll to the right flanke charging to the right hand, to the left flanke, charging to the left hand; which were the third and fourth motions of Alexander: moune forwardin front, it might be a figne for the battell to follow, which was the fift. Mouing to the right hand, for the battell to march to the right, which was the fixt : to the left, for the battell to moue to the left, which was the feuenth; which motion might more easily be performed, in case the ensignes of the particular Companies tooke their direction from the maine signe, and fo framed themselues to the same motions, and the Souldiers to the motions of their Enlignes: This I say is my coniecture, wherein notwithstanding I prejudice no mans opinion, but leave every man to his owne conceit and sence. 5 X emphon relateth a notable example of Iphicrates the Athenian, 5 X emphilit grate. who being chefen Admirall by the Citte, as soone as he began to take the Sea with 16.587.6. his Nauic, both at once sailed, and also prepared all things necessary for Sea-fight : for heleft at home the greater sailes, as one that sailed forth to fight, and seldome weed the greater masts, were the winde neuer fo faire, but hasting forward with the oare, he both made the bodies of his men frong and healthy, and the Nauie gained a speedier way: and oftentimes where he meant to dine, there would be draw his whole Nauic from the shoare in a wing? and turning them about, and addressing their prowes to A single sie. the land, give a figne for the ships to hasten with all celerity to the land, every one as it could. It was a great reward and victory for those that came first to land, to water, and take all things they needed, as also to dine, and a great punishment to the sluggards to want those commodities, and besides to put to sea again, when the signe was given: for the first did all things at ease, and as they list, the last were streightned with haste, and

must doe as they could. When, by chance he dined in the enemies Countrie, he (et out Sentinels some upon land as behooved, other upon ships rearing up the Masts, that from them they might take a view of all things : for thefe being placed in a higher flation, might easily discerne and see further, then the other standing woon even ground: where soeuer he supped and sleps, he suffered no fires to be made in the Campe by night, but held light before the Campe, that no man might have accesse to it without discouerg. Oftentimes in faire weather he no fooner supped, but put to sea againe, and in case there were a fresh gale, sailed forward, and the sailers in the meane time gaue themselues to rest: when hast was needfull he relected the saylers by turnes, and in the day time upon lignes led sometimes in a wing , some times in a phalange. That these were mute signes from the Admirall ship (besides that the word

a മത സ്ഥല്**ത**. Xenoob bif gree. 16.587.C.

b Les c.19.540.

4 enteres.

musion importeth so much for the most part) no man I thinke acquainted with Sea service will make question, considering that both voice and b trumpet eafily give place to the whiftling of windes and roaring of tempests, and raging of waves of the Sea. To fay nothing of the distance of one ship from another nor of the tumult and cry of Mariners, or found of oares (for in those times sea fights were altogether in Gallies driven with oares) which make them vncapable of direction by any other kinde of figne. And for these mute signes to be given by sea, I meane, of what kinde they should be, and to what end, and in what manner delivered, I thinke good to cite the words of the Emperour Leo, which found thus: Let there be, fasth he, in your Galley a a signe standing in some eminent place, either an ensigne, or some bancrall, or some such * Les c.19.5.41. like, wherewith after you have signified what is to be done, your direction may fir aight be understood and executed, whether you would have your Navie to goe to charge, or retire from the Enemy, or to countermarch to encompasse the enemy, or to hasten to relieue some of your owne party distressed, or stacke or quicken their advancing, or lay or avoid an ambush, or such like : that they seeing the signes from your ship, may receive direction what is to be done. And a little after he declareth the manner and vfage of these signes, saying; Let the signe be shown either standing vpright, or enclining to the right or left hand, or lifted aloft, or let fall low, or be taken cleane a-. Lee c.19 \$.42. way, or transported to another place, or changing by making the head of it appeare in divers formes by adding other shapes of colours unto it, as was used by the Ancients. For their manner was in the day of bastaile to reare up a red coloured signe, which they called fourisses, and it was nothing else but a peece of red cloath exalted upon a long

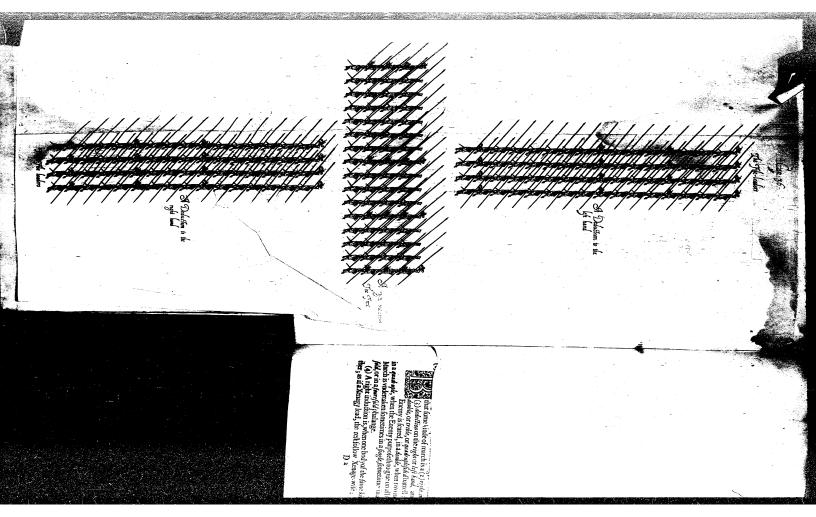
Died-Sic L13. 272.

staffe, and such like; but it may be more safely delivered by your owne hand. I thought good to cite thefe passages of Lea, the rather to give light to the place last beforerecited out of Zenophon. For out of this precept of Leo the practife of Iphicrates his motions may more peripicuously appeare.

Now that these red coloured signes, and signes of other colours also were vied in 1 Popple 151 D fights on land, 5 Polybins the weth in the battell betweene Amigonus the Macedonian King, and Cleamenes the King of Sparta. Amizonus Army confifted of divers nations, Macedonians, Agrians, Galatians, Achaans, Baotians, Epirotes, Acarnans, Illyrians. Cleomenes his enemy had taken and fortified all the streight passages which led into the territory of the Lacedemonians (for thither did Antigonus bend his invasion) and so disposed his forces that Antigonus could not passe without fight : Hereupon Antigonus resolued to fight; and because his fight was to be ordered in and against divers places, and at diuers times, as his aduantage fell out, he gaue diuers signes to his different people, when to give on: The figne to the Illyrians was, then to charge vp Cefer l.1. de ut 323.

Died.Sic.l-20 Veges. 43.5.5.

a record wife; or if a Tetrarchy



· Ano superior. Xenoph bift gree-ls.587.C.

Les 6.19.540

Lee 6.19.542 demusier.

* Les c.19 \$-4\$

Died Sic L1 372.

S Polybla 1

people, when to giue on: The figne to the Illyrians was, then to charge vp the 1 76 carenge

that some kinde of march is a (2) right industion, other some a (3) deduction on the right or left hand, and that in a single, or double, or treble, or quadruplessed doubtent in a single, when one Enemy is seared, in a double, when two in a rieble, when three in a quadruplessed, when there in a quadruplessed, when the Enemy purposeth to give on all sides. Therefore the March is vadertaken sometimes in a single, sometimes in a double, or in a three-fold, or in a fourtessed phalange.

(4) A right induction is, when one body of the same kinde followeth another; as it a Xenagy lead, the rest follow Xenage-wise; or if a Terratedy lead.

p b Died Sic.l-200

1 759. Vegec 13 5.5.

the Art of Embattailing Armies.

the hill, when they faw a white limencloath held up from the place about Olympus, to the Megalapolitans and horse, when they saw the King life up a purple garment. * Cafar commanded his Souldiers not to fight without his direction, fag- cafar is de bes ing. be would give a figne with an enfigne, when he would have them begin. And al-and 323. beit the colour of red was vied for the most part in Signals, yet was not the party that gaue the figure precifely tyed to any colour: it was enough if the figne might gine notice of the Generals intent to them, whom it concerned: the first Ptolomie gaue a figne to his Nauie to begin the fight by holfling vp Diod. Sie. 120. a guilt Target in his Admirall galley, other with holding up or shaking their 159 garment, or their hand, or with mearing some unusuall marke upon a horse, upon Armes, upon vestures, or such like. This is to be noted for a generall rule, that when you finde in history a figne was given at a great distance, and it is not expressed what figne it was, you must vinderstand that it was a mute figure presented to the eye, because the sence of hearing is seeble, and not able todiscerne farre off. Hitherto of mute signes given by day. In the night, when all was couered with darknesse, and the vse of sight taken away, the vsuall manner was to give a figne by flame of fire, which manner of fignall might be descried in the night, being the darknesse never so great : 4 Scipio Africanus a Applemin Histhe your ger, having enclosed Num initia round about with a trench and ram-passes as a pier, comman ed that if the Enemy fell out upon any part of his fortification, ared pecce of clearly fould be held out by day upon a long staffe, a flaming fire by night, that himselse or his chiese officers might come to succour. The like shall you finde in Cafars Commentaries and D. Curtime and in other Historiographers both Securent, Greeke and Latine.

These were the fignes vsed in the battell, and in the Campe : without the Campe were fet Semin le both horse and foot to fore warne and give advertisement to the Generall of the Enemies approach. To these oftentimes the Generall gaue a figne amongst themselves, and they by signes signified what was done abroad. For the manner of placing these Sentinels, see Aneas. The fignes themselves were such as might be discerned by the eye, and of that kinde and forme whereof I have made mention already.

Of Marching, and of the divers kind of battels fit for a march. And first of the right induction, of the Calembolos, and of the Triphalange to be opposed against it.

CHAP. XXXVI.

Eing now to speake of marching, I will first give to understand that forme kinde of march is a (2) right industion, other (one a (3) deduction on the right or left hand, and that in a fingle, or double, or treble, or quadruplesided battell : In a single, when one Enemy is feared, in a double, when two in a treble, when three

in a quade sple, when the Enemy purposeth to give on all sides. Therefore the March is vindertaken sometimes in a fingle, sometimes in a double, or in a threefold, or in a fourefold phalange.

(4) A right induction is, when one body of the same kinde followeth another; as if a Xenagy lead, the rest follow Xenage-wise; or if a Terrarchy

The right Induction

The front



& Point L: 1:

diucts times, as my entered people, when to give on: The figne to the Illyrians was, then to charge vp lead, the rest follow according to that forme. It is so called when the march firetcheth it felfe forth into a wine, having the depth many times exceeding the length.

Against it is opposed the Calembolos or hollow-wedge, which is framed when Antiftomus diphalange dissoyneth the leading wings, closing the reare in forme of the letter V, as the figure after doth teach, in which the front is diffeuered, and the reare ioyned and knit together: for the right induction pointing at the midlt of the Enemies battell, the Calembolos quickly opening before, serveth both to frustrate the charge of the front of the induction, and to classe in and circumvent the flanks thereof.

Furthermorea Triphalange is to be fet against the Cælembolos, one Phalange fighting against one wing of the Cælembolos, the second against the other, and the middle or third phalange forbearing, and expecting a time fit to charge.

TVOTES.

He Marching of an Army is a principall head of warre. Elian toucheth it no further, then to shew the order and shapes of battels fit for a March: and were it possible, that all grounds were alike open, and without impediments, as namely without trees, ditches, hedge-rowes raggedwaies, valleys, hils brooks and fuch like the best forme of your marching (hould be to proceede with your whole phalange in a fquare battell, which forme is ready for all attempts of the enemy, and is the beginning and fourfe of other formes, and with no great difficulty wil take & be changed into any thape you defire. Les theweth the inconveniency of the Herfe or induction in marching thorow Champaine and large plaines, first in that the Enemy with a broad-fronted battaile may enfold and encompasse the front, and so easily rout it then, because if the Enemy charge the flanke it will quickly be broken, as being without depth : further, if he fall vpon the reare, it is in the like danger of encompassing, as was the front: lastly neither can the front give fuccour and affiftance to the reare, in case it be overpressed by the Enemy, nor yet the reare to the front, they being fo farre distance one from another. And he concludeth that the forme of a fquare or broad-fronted battaile, is fit for a march in all occasions, being easily to be ordered, and without danger. But feeing it is not possible, as Polibius faith, or else very hard to finde out Property reses places of 20 furlongs, or more, where in none of the impediments about recited shall be, the formes of marching must necessarily be accommodated to the ground and wayes through which your forces are to passe: what formes they be, the following Chapters will shew.

2. Some kinde of March is a right Induction.) The expectation of the enemies approach is oftentimes a cause of varying the kindes of march: if he alwayes appeared in front, there should need no other proceeding then with the file-leaders in front : because he seekes his advantage, and in the March fornetimes attacheth the reare, fornetimes one flanke, fornetimes another, the Grecians to prouide for all attempts, so ordered their March, that wherefocuer they feared the enemies giving on, there they opposed the file-leaders, as the best men of the Armie, and most able to receive the affront : yet for the most part the March was undertaken in a right induction, the Art of Embattailing Armies.

that is, without inverting the ordinary kind of file-leading in front, which... also is our manner of marching at this day. But yet sometimes in a

3. Deduction on the right or left hand.] There is but one kind of right induction, viz. a march, that hath the file-leaders in the front. Of Deductions there are 2 kinds: one to the right, the other to the left hand. And because the file-leaders march on the right or left hand flanke, not in front; therefore the one is called a right hand deduction; the other a left hand deduction. So that not the body which continueth or beginneth the march, but the place of the fileleaders in the march, makes the difference betwirt Induction and Deduction. What the Vie of Deduction is we shall see in the next Chapter.

4. Aright Induction is.] Ælian describeth the right Induction by the marching of feuerall bodies of one kind one after another; as if a Xenagy lead, all a Xenagy and a the rest of the sorces are to bee separated into Xenagies, and singly one after syntaga, are all another to follow the first leading Xenagy: so of other bodies seller or greater. Notwithstanding in a right Induction, wee must take this caution with senten the size. all, that the file-leaders proceed in the front; for otherwise if they bee placèd in the flanke, it is now no induction, but a deduction, how loeuer the senerall bodies of a kind follow one another.

This is that manner of marching which is called, marching in a wing, of which I have spoken sufficiently in my notes upon the 30 Chapter. There are other kind of inductive marches fet forth in the Greeke History, which are not altogether of the forme which Aelian describeth: for where Aelian would haue Xenagies to follow one another with the file-leaders in from, his meaning is, that the whole 16 files of the Xenagie should bee laid together all the fileleaders being layed in an euen front. Now you have examples where whole Companies march in one file; fo that all the file-leaders haue not the front, but rest included in the inward parts of the file, and yet many of these files but reit included in the inward parts of the inc, and jet that when Cyrus ioyned together make an induction. ** *Zemphon reporterh, that when Cyrus ** *Zemph. Cyrus** the elder was mustering and exercifing his Army in the field, therecame onto La 16. him a messenger from Cyaxares the King of the Medes, being Cyrus his workle, signifying, that an Ambassador was arrived from the Indies, in which regard, said hee, the King would have you to come to him with all speed, and I bring you from Cyaxares one of his richest garments. For he desireth in regard the Indians are to see you, that your presence may bee adorned with as faire and sumptuous apparell as may bee. Cyrus receiving this meffage, commanded the first Taxiarch to stand in front, ha- a Taxiarch ? uing his Company ordered behind him in one file, and himselfe holding the right cor-was a Captaine uing his Company ordered benina nim in one flie, and nimfest wiveling one right of the hattell, and willed him to deliuer that Command to the second Taxiarch, of too mea. and so the word to passe to the rest: They quickly obeyed, and put the Command in exce - rate. cution; and fo it came to paffe in fort space, that the Front had in it 300, (for so many the Taxiarches were) the depth of the battell 100. After they food in this order, bee commanded them to follow, as he led, and straightway he led them running but because hee perceived that the way was too freight to march with fo many in Front, hee willed 4 This was a bobee perceived that the way was too irreignt to march with jo many in errors, nec written the first 4 Chiliarchy to follow in the same order inwhich it then was, and the scending by 41 1000 man; and they were the Reare thereof, and so the rest and he sent two Sergeants to the turnings of the way, now ordered to to give direction to such as were not fully instructed in the businesse. When they were in Front, the come to Cyaxares gate, hee willed the first Taxiarch to order his Company 12 deepe, the file was 140

and the Dodecadarches to stand in Front all along the pallace, and hee willed to signi- and the Dodeca. and the Dodecadarches to stand in Front all along the pallace; and net while a light fee for much to the next Tax tarch; and so the rest one to another through the whole Are darchs commanded to the next Tax tarch; and so the rest one to another through the whole Are darchs commanded to the hinder my. They did as they were commanded: and he went in to Cyaxares. Here have you halfe lies.

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first a Company drawne into file, and so standing; then 299 Companies fashioned into files, and lald flanke-wife to the first, and so marching as long as the ground would permit: The ground afterward being capable of no more then 10 in front, the Chiliarchy of the right hand was drawne forth to leade the march, which confifted of 10 Companies, the Body being 10 in front, and 100 in depth: The rest of all the Chiliarchies followed the Reare one of another in the same order: comming to a place where Alte was to be made. the first Taxiarch drew out his Company by 12, placing the first file leader in front with the first 12 of the file, and fleeuing vp the Dodecadarch of the same file to Front with the file leader, and the hindermost 12 of them that followed him to ranke with the former halfe file; the like was done by the 3 other files, fo that each Taxis had 8 in Front, and 12 in depth, and there being 30000 men in that Army, the whole Army comprehended 300 Taxis. the halfe files of 12 a peece amount to the number of 2400: fo many men in number also making the Front of the Army. And for the leading of the first Chiliarchy in the straight way, and the rest following in the like forme. it was an induction, which notwithstanding differeth from Aelians induction. Aelians Chiliarchy in the induction requireth the file leaders in front, this differfed them in the whole body, Aelians Chiliarchy would have had but 16 in depth, this had 100. For marching in like manner with the Captains before, and the fingle files of a Company cast into one file after them, I finde another example in * Xenophon. The elder Cyrus being to inuade Affyria by night. directeth his Army thus; Let we leave with the carriage beafts and waggons, Such as are fittest for that service, and let Gobrias be their Leader, because hee is both skilfull in the waies, and otherwise sufficient for any affaire of Command: And let us set forward with the best and most able hor se and foot, carrying with vs victuall for three daies : for the lighter, and with the leffe cumber wee shall appoint out felues, with live. much the more pleasure the after passing daies shall we dine, suppe, and sleepe. Now let the march bee ordered in this manner : First, you Chryfanthas, lead the barmed foote with all their Captaines in Front, as long as the way is even and broad; and let every Company bee ordered in depth souldier after souldier file-wife; for the closer wee put our felues together, the fooner and fafer shall wee end our march. The cause why I would have the Armed goe before, is in regard they are the heaviest of the Army: and when the heaviest goe before, the light must needs follow at ease. But when the lightest leade, efecially in the night, it is no marualle if the Army bee feuered and distratted. she light easily slipping away, and hastening in the Vaunt. Next unto these, let Artabazus lead the Targetiers and Archers of the Perfians, and Andramias the Median, the Median footemen next, then let Embas follow with the Armenian foot, and Artuchas after him with the Hircanians, and next Thambradas with the Sacan foote, then Damatas with the Cadulian, and let all thefe march with the Captains in front, and on the right flanke of their a Plesium the Targetiers (or Peltasts) the Archers on their left for fo shall they better second one another. After these let the whole baggage march, the Commanders whereof mult bee carefull to have all things ready before they fleepe, and early in the morning to bee at the appointed place with their furniture, and decently to march forward. After the baggage let Madatas the Persian lead the Perfian Horse with their Captaines in front, and let the Captaines order their Companies in a file, as the foot Captaines did . Next after thefe Rambaces the Median in the Came fort the Horfe which bee commandeth: Then you Tygraues your horfe: Then the

l Plafeum a a ollow square the Art of Embattailing Armies.

other Horse Captaines every one the Horse with which they serve mee. And as the Cadufians came last to my fernice, let them close up the reare of the Army . Thus Rem.

The passage is somewhat long, but I thought good to recite it, because it containeth the order of night marches viuall of old time. First, the armed foote march euery Nation after other, as long as the ground would give leaue, in a square battell framed of Company laid to Company, every Company drawne out into a file, the Targetiers on the one flanke, the Archers on the other: then the carriage: last of all the Horse. The reason is added why the flowest haue the Vaunt, namely, lest in the night, when all things (saith the same Xenophon) are to bee understood and done by direction to the eare, and not to the eye, the Horsemen or light armed (who are nimble & quick, the Horsemen by reason of the Horse that carry them; the light armed, because they are troubled with no weight of Armes) leading, they might happily with their speede our-goe, and leave the heavy armed bechinde. who beeing burdened with the heauinesseof their Armes, can march but

But my principall end was to shew, that the file-leaders in an induction,, are not alwaies placed in Front; I will adde one example out of xene phon more to the same purpose; When the Grecians that followed Cyrus the jon ger into Persia, returned toward their Country, they came as sarre as the river Phis at cuesthey found there a bridge, and not farre off a great City called Opis, at which the base brother of Cyrus and Artaxerxes, teading from Susa and Echatana a mighby Army with him, to give aid to the King, met the Grecians; and causing his owner Army to make alte, hee tooke vinto of the Grecians as they paffedby. Clearchus led his Army b a in Front, and in his march of contimes made alte. As long as the b mon weath Vaunt of the Army staied, so long the Rearemust likewife stay. So that the Grecians were of opinion they had a great Army; and the Perlian was abashed at the fight

Whether this march were Elians right Induction, a man would doubt, because it is not expressed by Xenophon particularly how the bodies of the Phalange did march : onely hee faith, that Clearchus led us we, in bines saith the Latine translation: I interpret it 2 in Front. For two in depth it could not be, because Xenophon speaketh of a stand made oftentimes by the Vaunt which caused the Reare to stay. And had the Army beene but 2 in depth, it had bean all Vaunt, the 10000 Grecians beeing ordered into two ranks and no more, each of them being 5000 men belides that the Perfian wondered at the multitude which passed by him in flanke; which flank, if it had confilted of no more then two his wonder would foon have ended. But Clearchus vied Art to make his number feeme greater, and being but 2 in Front, they must needs be 5000 in file; to which 5000 giving 6 foot apecce for their open order, the ground wil contain 30000 foot in depth, which amout to fix miles of ours. The vage of the Lacedinovicus was to march fonetimes Fine fore male in with 2 in Front, if the way were straight. So did Deroylida in Asia the Jelle, pace, 2000 for when entring into a City his whole Army fellowed him peaceast, we have in Front, are 6 mile, town making Sob Archidamus the fonne of Agefilaus, aduancing against the Arcadians by a cart mile. Way that led to Cromnum, ordered his Army 2 in Front, as then his march fell aus. when they approached one to another, Archidamus his army being in a wing by reason

of the streightnesse of the way, the Archadians in a broad fronted phalance, with targets close faced together, the Lacedemonians could not endure the charge of the Arcadians, and forthwith both Archidamus was wounded through the thigh, and they flaine that fought before him. Hee faith that Archidamus marched two in front wing wife by reason of the streightnesse of the way. In that he saith wing wife, be sheweth the army was drawne out in depth, which is proper to an induction; and when he maketh the way the cause, he giveth a reason, why it so marched. But to returne to that I first propounded, the inductions hitherto specified in the former examples seeme to differ from Elians right. induction, as neither having all the file-leaders in front, nor yet fingle bodies of the fame kinde one to follow another, the companies being each drawne into one file, and then two, or three, or foure, or more of these files laid together, according to the largenesse of the way, and the rest of the army fol-

Towing in the manner afore expressed.

5. Against it is opposed the Calembolos.] The Calembolos is a wedge hollow in front, and to be opposed against the right induction, saith Elian. I have noted before that it hath beene the manner of all famous Generals to fit the embattailing of their armies to the forme which the enemy vieth at the time of ioyning: and therefore it much concerneth the 2 Commander of an army to be skilfull in all formes, which are of true vie, and to know the advantage that one carrieth against another. The right induction is, and alwayes hath beene the ordinary forme to march in. To order your troopes in an aduantagious forme against it, the Cælembolos was invented: It is called by the Greekes a hollow medge, because it is not filled up in the middest, but includeth a void space bias-wise in front betwixt the points of both wings, and ioyneth it selfe together in the reare. So that to one that fhall view it behinde it seemes a plaine wedge, and yet in propriety of speech it cannot be called a Wedge; for a Wedge hath three sides and three points, and beareth the true forme of a triangle; and with the former point it chargeth the enemy, as hath beene showne in the horse-mans wedge. This hathbut one point and two fides, neither doth it charge the enemy with the point, but receiving the front of his battaile into the empty space, striketh vpon both the flankes thereof with the wings, it hath opened, and so seeketh to diffresseit; the Cælembolos having this advantage, that it fighteth with the best men, viz. the file-leaders ordered in the inside of the wings thereof. not against the file-leader of the right induction, but against the weaker fort, who are ordinarily placed in the flankes thereof. The Latine names are more fit and fignificant to expresse the forme. By some it is called a paire of tongues, by othersome a paire of sheeres, both appellations serving to fer forth the right forme of the Calembolos: for the one and the other open their foremost parts to a pretty distance, and the hinder parts, which are pinned and fastened together, end in a narrow point, as doth the Cælembolos. And they were so farre from tearming it a wedge, that they held it the best forme to receive and frustrate the charge of the true wedge, as may

► Forcess Peget. L 3. c. 18.19. ti 9.ferfen.

* Perestino.c.18 be feene in & Vegetius. 6. Which is framed when.] The fathioning of the Cælembolos springeth out the Diphalange Antistomus. What that Diphalange is, we shall see in the 40 chapter of this booke. Thus much I may before hand fignifie, that the Art of Embattailing Armies.

the file-leaders ought to be placed within the hollow flanks of the Calema bolos, as it were a lyning to the infides; and the Di-phalange Antistomus being once framed (which is to have the file-leaders in the middest from the one end of the battaile to the other) there needeth no further labour, then to dispatch the front in the middest (leaving the file-leaders on both sides) and to fasten and ionne together the reare, to the end that the front of the right induction may enter into the hollownesse, but yet be mashed, as it were in a net, and neither able to passe through the reare of the Cælembolos, being close faut, nor yet to give offence to those that fight in the front of the Calembolos, having no man whom they may charge in the void space; nor yet daring to breake the forme of their battaile after ioyning. For it is a good obfernation of Vegetim, that in fight the manner of your embattailing is not to be vegets att changed, nor any number of Soi ldiers to be transported to other places then they have : Zuophagen For hereof sumult and confusion will streight arise, and the enemy will easily take adna stage of such as are not ready or fall out to be difordered. I have faid that the Latines and Grecians differ in the name of this battaile, howbeit they agree both about the forme, which may here appeare by Elian, who refembleth it to the letter V, neither can there a better refemblance be made; for as the letter V confifteth of two lines which are open in the top, close in the bottome, so doth this forme of battaile of two sides, which in front are void, open, and diffeuered, in the reare joyned and closed fast together. If you will therefore frame this battaile, you must first make a square, the file-leaders being all in front; then must you wheele the wings of your battaile into the middeft, and so your file-leaders shall be in the middeft; lastly, you are to open the front of your battaile, leaving halfe the file-leaders in the infide of one flanke, and halfe in the infide of the other, keeping the reare close knit together : and for the opening, it ought to be somewhat more then will receive into the void space the front of the right induction, which being once ler in, the inward two flanks of the wedge where the file-leaders are, ought to face to both hands, and to charge the outward flanks of the right induction, and fo circumuent them.

7. Furthermore, a Triphalange.] A Triphalange in this place of Elian is. when a square body or phalange is from front to reare divided into three parts. The figure shewes the manner. The Triphalange hath as much aduantage against the Cælembolos, as the Cælembolos had against the right induction. The Gælembolos compelled the right unduction to fight with the worst men, and avoided the affront of the file-leaders, which were the best. The Triphalange having the file-leaders in front, opposeth two severall fronts: against the two wings of the Cælembolos, where there are no fileleaders (for they are alwayes disposed for the inside) and both avoideth the advantage the Cælembolos fought, and maketh the Cælembolos fight with the world men, in as much as one of the Phalanges chargeth the front of one wing of the Cælembolos, the file-leaders whereof are in flanke within the hollownesse, the other chargeth the other. Now it nath this advantage befides, that it spareth referues for all occasions, by off-holding the third Phalange. If the Cælembolos be beaten by the two opposing Phalanges, all is loft, and no hope left of winning the field, no other forces being to second it, where not with standing the Calembolos having gotten the better, may be curbed, and the victory arrested by this reserve, and by the remnant of the

other two Phalanges broken.

The Tadiks of Ælian, or

Words of direction in the right induction.

The right-corner Xenagy march ou	So is it of all other bodies, if
2 The reft follow in Xenagies	they begin the march.

Direction for the Calembolos.

1. Wheele the wings of your battaile into the sin the middeft; but we middeft of your body ______ the middeft; but we must note that the two midlemost leaders must be centors for the other to wheele about.

For the Triphalange.

1 The two wings face to the right and left hand, the middle remaining as it was.

2 March out to the distance required:

3 Stand, { When they come to the place | That is, to be able to meet in a right line the two fronts of the wings of the Cælembolos.

Face as you were.
 Advance and charge.

Of Paragoge or deduction.

CHAP. XXXVII.



Aragoge or deduction is when the Phalange proceedeth in (2) a wirg, not by (3) file, but by ranke, having the commanders or file-leaders either on the right-hand, which is called a right hand deduction, or on the left hand, which is a left-hand deduction. For the Phalange marcheth in a (4) damble,

treble, or quadruple front, according to the place or part it is suspected the enemy will giue on. And both the paragogies beginning the fight in flanke, doe (5) make the length double to the depth. This forme of fight was deuised to teach a Souldier to receive heedfully the charge of the enemy, not onely in front but also in flanke.

NOTES.

(1) DEduction is when the Phalange.] Induction is spoken of, Deduction followeth, which is the second kinde of march. For these are no other

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other kinds then Induction and Deduction: the one with the file-leaders in front, the other with the file-leaders in flanke. Neither doth the greatnesse of the body make any difference herein; be the body neuer so great (as is the Phalange) or so small (as one Company) yet must the file-leaders either lead, or else be in flanke of the march. The reare in necessity may well be made good by the bringers yp. Deduction is the mother of miny formes of battailes vsuall in marches: from it come the Cælembolos, whereof we spake before; from it are the Antistomus, the Persistomus, the Homoioistomus, the Heterostomus, of which hereafter.

When the Phalange proceeds in a wing.] Suidas hath, that Paragoge or dediction is faid to be when the phalange marcheth with the file-leaders on the right or left hand deduction; if on the left, it is faid to be a left-hand deduction; if on the right, a right-kund deduction. He maketh no mention of a wing as Ælian doth; for it may to fall out, that the body may be such as hath the depth and breadth all one, as a Xenagy which hath sixteene in breadth, and sixteene in depth: some bodies also, as the Taxies and Tetrarchies haue the depth lesse then the breadth, the first holding sixteen in depth & no more then eight in breadth, the last source in breadth and sixteene in depth, so that they march not in a wing. But because marches for the most part are vindertaken in a wing, it is the cause why *Lian* saith that deductions proceed in a wing, the depth whereof manifoldly exceedent the length and they proceed.

3. Not by file but by ranke.] That is, the file-leaders being wheeled to the sanke, after they haue feeled themselues to march, proceed on their iourney as they stand in the stanke, onely facing that way the march is intended, and returne not to lead in the front of the battaile, as they did at first. To lead by sile is, when the file-leaders proceede, and haue their files following at their backe. To lead by ranke is, when that which was the stanke at first, becommeth the front, and beginneth the march, and the rest follow accordingly stanke wife: yet this is to be noted, that albeit the front of the battaile be changed in the deduction, yet remaine the siles, siles as they were before, and are not altered into rankes. Alian himselfe giueth testimony hereto, affirming that the Phalange proceedeth not by sile, but by ranke, whereas if the files held not their sirst name after wheeling to the right or left flank, the march soward(the sile-leaders being in the stanke) should be by sile and not by ranke.

4. For the phalange marcheth in a double, treble, or quadruple fide.] A double-fided battaile is that, which hath the file-leaders on both the flankes, the reft backe to backe within, when the enemy giueth on. For otherwife, when they march forward, all their faces are fet one way, that is toward the place whether the march is intended. A treble-fided battaile is, when three fides of the battaile are to be charged, whether the front and both the flankes, or both the fianks and the reare, or the reare, one of the flanks, and the front, and the file-leaders are ordered on all the three fides. A quadruple battaile is, when the file-leaders are placed in front in the reare and in both the flankes. An example of the quadruple battaile will fhew the vie and framing of the reft: for as the reft oppose one, two, or three fides against the enemy, so the quadruple fortifieth and firengthneth all the foure fides, by placing the file-leaders in them. Of ordering the file-leaders vpon one flanke, deduction may be be an example; ypon both flanks, the Antistomus phalange vpon front

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and reare, the Amphistomus, on all foure sides, the Plesium, of all which occasion will be given to speake hereafter. Now I may signific that the Plefium is a fquare hollow battaile, the length whereof much exceedeth the depth having the armed foot placed on all the foure fides, the light-armed throwne into the middeft. The Gracians that followed Cyrus the yonger into Persia against King Artaxerxes, after their Coronels were taken prisoners and put to death by the subtilty and periury of Tiffaphernes, being but 10000. and to retreat thorow open and plaine grounds, in which they were like to be charged by an infinite number of horse and foot, by the aduice of Xenophon, cast themselves into this forme; his words are in effect these, Wee shall, it may be march in more safety, if we order our selves into a Plesium of armed foot, and give the carriage and difarmed multitude a place of fecurity within the hallownesse of the battaile. If therefore it be now resolved afore-hand, who shall command in the front of the Plesium, and take charge of Vaunt, who on the flanks, and who in the reare we shall not neede to take aduise at the approach of the enemy, but put in execution that which is resolved before. And a little after : And mine opinion is, that Cherifophus is the fittest Commander for the Vaunt, because he is a Lacedemonian; and let two of the eldest Coronels sake care of the Flankes; the yongest, namely my selfe and Timation willlooke to the reare. This was Xenophons counfell, and in this forme they marched, and being charged afterward with both Persian Horse and foot, they defended themselves against all efforts of the Enemy. The quadruple battaile therefore was vied, when the enemy was expected to give on all fides; and he that can frame it, can easily cast his troopes into the other two formes; yet will not every receiving the enemy in flanke

prouea Deduction; for in case of necessity and sudden approaches of the

enemy, you shall be driven to Facing, wherein you onely turne the faces of

fouldiers to the flanke without any deduction. See the figure of this battaile

doth thew. Besides the example, which is given in the text is not of double

expressed in the picture. 5. Doe make the length double to the depth. I fuspect this place to be corrupted in the text of Alian, the rather because before in the description of a Deduction, he faith that Deductions proceed in a wing, wherein the depth manifoldly exceedeth the length of the battaile, as the last fore-going chapter

proportion, but of treble and more, ten comprehending three, three times and more.

Of the Phalange Antistomus.

CHAP. XXXVIII.

He Phalange Amphistomus (for it is so called, because it hath two fronts, and that part of the battaile that is fet and advanced against the enemy, is called a front:) seeing then in this forme the middle-most are ordered backe to backe, and those in the front and reare make head against

the enemy, the one being Commanders in front, the other in reare, therefore it is called Amphistomus. It is of great vse against an enemy strong in Horse and able to give a hot and dangerous charge, and principally practifed against those Barbarians that inhabit about the river lifer, whom they also call Amphippi, because they change their Horse in fight. The Horse bartaile to encounter this forme hath a retragonall shape, being for the purpose divided into two broad squares (they are called broad squares; that have the front twice as much as the depth) and those squares are opposed severally against the flanks of the foot-battaile.

NOTES.

(1) THere are many kinds of battailes, which being viefull for a march, are described partly in the former two chapters, partly in this and in the chapters following, whereof fome are for ease of the march (as the induttion) some for fight. Those which are for fight, are either offensine, or else defensive. Of the offensive kinde is the Cælembolos before mentioned, of the defensive the Triphalange to be opposed against the Cælembolos, and both the deductions, which are represented in the two last Chapters: and in this chapter is described another of the defensive formes, that is to say the Phalange Antistomus; in which although the march be not continued (for it is alwayes taken up in a stand, to resist a charge of the enemy) yet it is a remedy defensive against the sudden attempts of the enemy which is about to

charge your reare.

2. The Phalange Amphistomus.] The title of this chapter is litigious, and there is a controuerfie amongst the learned, which of two names the chapter should beare. Gaza, Gesner, and Arcierus, would have it inscribed Antitistomus; Robortellus, Amphistomus: I have in the translation followed the opinion of Robertellas; my reason was, because of these words in Alian, or to rais appais moos person rois resquires, they in the beginnings (wrais appais) charge the enemy: which word in a. I have not read applied to the flankes, and therefore tooke it for front and reare, because the one namely the front is as it were the beginning of the battaile, the other, viz. the reare, is the end. In which fence if you take the word, the description must needs agree with the Amphistomus, which (the enemy charging both front and reare) with the file. leaders and their halfe files as they stand, receive those that charge the front, with the bringers-up, and the other halfe files facing about to the right or left hand, those which charge the reare. But fince, vpon better consideration, I thinke there is a fault in the next; and where it is written write engine, it should be corrected and written (as I take it) write days. For that Ti days, fignifie the flankes of the battaile. * Iulius Pollux testifieth in these words; ran manusikeun ro in upoken radorus miranus, 2 (6)20 2) uposumus: ra insufenus, anna, utang, utanus a lul. Polituchi To despite is everyuse: To dis pieces oupands; To de Rados Toixos rateitas. The forepart of those that clo fight, is called the front, the rankes, and the face; the outward parts on each fide (ne increase deed) the flanks, the wings, the right and the left; the middest the na. Arres, 109 F. well; the depth, the parget; or wall. The like doth Leo in many places: and as Leo 47.5 52.19. farre as I can read, read the second in the plurall number, is generally taken for the cristal room flankes; albeit reads in the singular number I deny not to be vied for the cristal room flankes; as in 'X emphon, who describing a sight betwirt the Cor. the property degree reare sand Lacedemonians, hattithus; Mnassposs (the Lacedemonian Gene, who she called a sall) embattailing his cross that the control and the control room for the control room vall) embattailing his army put the enemy that was neere the gates to flight, and fel- of a wedge and lowed the chace. They being come neere the wals, turned againe and threw and cafe

b migrayanus. € €¥ 6×70 75 ταγμ: 901. 4 τδ άκες τῆς girayy 3.

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1:84.C. Suidas vieth So Edd apply ice the right wing, now the wing Arctcheth in front from the middle fection to the point of the batta.le Alien.c.7.

darts from the mountaines : other running out of the other gates in good numbers fell upon the reare of the Lacedemonians, who being ordered but 8 deep, and thinking the reare of the Phalange to be but weake, endeauoured to retire and fall off. The enemy no fooner fare them give ground but prefently fel on more eagerly smagining they fled . neither did they turne their faces any more, and they who flood next unto them fought with all freed to fane themselves by flight. Mnasippus could give no aid to his destreffed fouldiers by reason hee was hardly laid to by the Corcircans, that came to hands with him; and his number by little and litle decreased: at last the enemy in great numbers pressed them fore that stood about Mnasippus, who were now reduced to a very few. And the armed foot of the Cisty feering what was done abroad, iffued out, and afad axeor Taxis ter they had flaine Mnasippus, they followed the chace all of them together. Thus Xenorhon. And thus you may fee were in the fingular number taken for the reare of the Phalange, howfouer water in the pluralt, fignifieth the flanks. The Antiftomus 1 halange therefore differing from the Amphiftomus in this only, because the last maintaines fight in front and reare, the first in both flanks. and Alian in this Chapter describing the battel which maintaines the fight in the flanks, it feemeth that the infeription ought to be of the Phalange Antistomus, and that the text ought to be wross wes and not escars. It may after a fort appear by Elian himselfe in the next Chapter, where making a difference betwixt these two battailes, he saith plainly, that the Antistomus fighteth is anyon. Read then in the text, Thuse in the flanks make head against the enemy in flead of these words: Trose in from and reare, and all the rest will agree to the Phalange Antifromus.

- 3. It is of great afe] The vie of this battaile is principally against horse. as Elian giveth to vndersand; because they are quicke and speedy, and can fuddenly turne, divide themselves, and charge where they lift. And the flanks of the battell being the weakest part (for your best men are placed in the front and reare) it is needfall to finde out fome meanes to defend them, which is to instruct your Souldiers how to receive the charge by turning their faces to the flankes. In front you are alwaies ready; because faces and weapons are bent that way. Effect the like in the flankes, and you shall be able to refift any charge of the enemy. For foot, the danger is not fogreat, because your men shall be able to face every way, as readily as the enemy; give them only exercise, and acquint them with that manner of fight.

4 And principally practifed against the Barbarians.] That it was much vied amongh the Crecians I find not in there history yet is there no doubt but the vie may be great in it as well as in the Amphiftomus. But I take the reason. why it was seldome put in practice, to be, because the flankes of pikes in the Greeian battell were for the most part, garded with horse and light-armed. The front and reare having no fuch defence, were commonly attached by the enemy, feeking all advantage to diffresse them; and in case the horse and light-armed bee absent, the flankes are the fairest marke of the encmy; which can by no other meanes be fecured, but by facing that way where he giveth on; which may be evidently feene by the fight Cyrus the elder had against Crefus, which example you shall see fet out in my notes vpon the 46. Chap. page 79.

5. Those are broad (quares] That which I heere translate a broad fquare, is in the Greeke Heteromekes; of which forme I have fooken in notes vpon the 30. Chapter.

Wordes

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The Tutticks of Ælian, or

Asdruball the Carthaginian Sought to entrap Scipiosgiuing Mago his generall of the hor le commandement to charge Scipio his army in front, whiles himselfe charge dit in thereare. But Scipio turning the reare of his battell against Afdruball, and oppoling the front of it against Mago-ouerthrew them both, and slew 5000 Cartha ginians, and tooke 1800 prisoners. To make the manner of fight in this forme more plaine, I thought fit to infert an hystory or two out of Polybius and Arrian, as examples to illustrate that meaning of Alian. In Polybius this is the history. The Gaules in great multitudes under the conduct of Conco-Pape. lib. 2.115. litanus and Aneroestus their Kings, transcending the Alpes, and passing thorough Lombardy, and falling upon a part of Hetracia, had gathered rich (poiles out of that terretory, and being now upon returne to their countrey, they were purfued by one of the Roman Consuls L. Amelius and his army not with intent to fight with them (for hee held it not (afe) but to observe fit times and places to distresse them, or else to keepe them from further spoile. At the same time C. Attilius the other Consull baning imbarked his legions in Sardinia, and festing faile for Italy arrived at Pifa, and holding his way toward Rome marched directly in the way in which the enemy was comming. The Celts being now about Telamon, a promontory of Hetrucia, their foragers fell into the hands of the Vantcurrers of Attilius, and were taken prifaners; They informed the Conful of all that bapned, and fignified the preferee of both immies; telling that the Gaules were at bana, and that L. Amilius followed them close in their rearc. Attilius partly maruailing at the strangenesse of the newes, and parly being full of good hope because the Gaules seemed to be surprised and bemmed in betwint two armies, commanded the Tribunes to order his legions in a broad-front, and to lead on leafurely, as long as the ground would give leave : himfelfe in good time discovering a hill which hung ouer the way, in which the Gaules were to paffe, tooke with him the borfe, and fought with all freed to feife went the top of it, and to begin the medly: concesting thereby to have thehonour and title of the whole service ascribed to him: the Gaules were at first ignorant of Attilius approaching, but consectured onely that it might be Amylius had led bis horse about in the night to feife uponufeful places: they (ent therefore their horse and light-armed to beat the Romans from the hill : but soone understanding by some captives that Attilius was there, they presently embattailed. ordering thir army b into two fronts, the one before, the other behinde; for they knew that one army was following, and they expected as well by the newes they heard, as by that which they (aw fall out at that time, that the other would meet them woon their march: Amylius heard that the legions of Attilius were arrived at Pila, but could not imagine they were come (o necre: but after that by the fight about the hill, he perceined certainly they were at hand, he fent out his horse to second those that fought for the hill himselfe ordering his battels after the Roman wonted fashion, led on against the eemmy. The Celts embattailed those that are called Gesates, and dwelt in the Alpes, a. sainst Amylius, who they imagined would charge the reare, and next to them the In Subrians. In the front they set the Taurs scans and Bo ans (inhabiting be ond the river Po) turning their faces a contary way to the former, and opposed to the accesse of Caius Attilius, the waines and waggens they placed without both wings, and lent their pray gained to a bill thereby, appointing a sufficient gard to keepe it. So the Amphistomus phalanec, which the Celtes cast themselves into, was not onely fearefull to theeye but also fitty ordered for fight. The Insubrians and Boyans came forth to fight wearing bretches & a kind of loofe and light coats; but the Gefates out of a vaine glory and raftime (Te call them away, and flood naked, faving that they had their armes

alone in the front of the batell imagining they were by that meanes fitter for actions

more property of The SATE OF BUE TOOS SESTECTS EMPE

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by reson of the bushes of the place, which would eatch hold of any garment, and be a hinderance to the vie of armes. The first fight was about the hill in the fight of all, by reason that the multitude of so many horse menout of both armies were mingled together in fight; wherein it happened Attilius to be flaine (while too venturously he offered himselfe to dinger) and his head to be presented to the Kings of the Celes, but yet the Ronanhorfe-men brauely fighting, because masters of the place, and of the enemy : After this the foot toining, the accident was rare and maruallous not onely to them which were present, but also to all those, who can by reading represent before their eyes the truth of that which was done. For first the sight being attached by 3 armies, it must need be that the very sight an I manner of the conflict appeared strange and without c. sample; secondly who would not doubt either now or then whether the Celts manner of embattailing were more dangerous, the enemy charging them in two places at once; or the best and aprest for victory, as opposing against both the enemies at once, and with all securing themselves from encompassing and invasion of the reare: and which is of most importance, no hope being left of safety, if they should chance to be foyled. For that is the property and profit of the Amphiftom's battaile; it made the Romans more confident, to have the enemy enclosed on all sides; and yet the brauery and nove and sumult of the Celts gave them cause of assonishment; For there was an in sum rable multitude of Trumpets and Shalmes, to which the whole army together adding the Paan, the cry was fo great, that not onely the trumpets and army, but the places roun labout with their rebounding ecchoes seemed of the nelues to speake. Further more the sight an I motion of the naked men that stood in the front, being in flower of their age, and excelling in talingfe of flature, was fearefull. Now all the Gules that had the from were adorned with bracelets and chaines of gold; which the Romans eveing were partly astonied partly being filled with rich hopes were incited much the rather to ione basiell; but when the darters running out of the Roman army according to their custome, threw many and forcible darts at the Celtes, the Celtes of the reare found zord wfe of their costes and breeches; but those that fought naked in the front, this accident happening contrary to their expectation, were trouble I out of mafure and wonderfully perplexed for the Gaulish target being not of fufficiency to couer a mans body, the greater and nakeder their bodies were, the more were they whilest to wounds, and the leffe the weapons missed the marke. At the last, beine not able to Take themselves from the light-armid, who plied them a farre off, nor from the multitude of dartes that fell amongst them, and being troubled and confused with their present state some of the mout of a rare and brutishnesse ranne vainty opon the enemy, and willingly offered themselves to slaughter, other retiring leasurely to their friendes, and shewing manifest tokens of feare disordered them behinde. Thus the Roman light-armed all sid the pride of the Gelates. But the multitude of the Insubrians , Boy ans, and Tauriscans, after the Romans had received thier light-armed into their battell, and advanced the cohorts, (of armed) to ione hand to hand, maintained a flout fight, and albeit they received many woundes, yet fainted they not in minds being onely inferior both generally and particularly in the kinde of armes they bore. For both their targets in defence, and their swords in offence, had a great difference; by reason the Gaulois sword is onely fit to frike withall. But when the Roman horse from the hill hasted downe in wine, and stouily came to handy stroakes with them, the foot-men of the Caltes were cut in pieces in the places where they fought, and the har se tooke themselves to flight: There dyed therefore of the Celtes 30000, and 10000 were take prisoners, aming I whom was Concolitan one of the Kings, the other K. Anerochus, flying to accreaine place with a few, killed

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dering that the Diphalangy Antistomus hath the leaders, in the slankes, as the Phalange Antistomus hath: which appeareth not only in the next Chapter, but also in divers other places of this Booke: neither doe I reade any where, that the Antistomus hath to do with the front and reare, nor the Amphiltomus with the slanks.

The words of direction in the Amphistomia.

1 Halfe files, face about to the right or left hand.

2 Charge the Pikes both waies in front and reare.

To restore to the first Posture.

I Aduance your Pikes.
The hindermost 2 Halfe files, face as you were.

The hinder

Of the Diphalange Antistomus.

CHAP. XXXX.

Diphalange Antistomus, is that which hath the file-leaders piaced not in a deduction outwardly, but inwardly face to face one against another, and the reare-Commanders without, one halfe in right, the other halfe in a left deduction. This forms is yield against Horse, which give on and charge

wedge-wife:for the wedge shooting forth in a point, and hauing the Commanders following in the flanks, and indeauouring to dissever and breake the Front of the stort, the Leaders of the stort fore-seeing their purpose, place themselves in the middest, with intent either to repulse them, or else to give them a thorow passage without losse. For the wedge slieth vpon the stort in hope to charge the multitude in the middest; and the stort commanders conceiving well the sury of that forme, leave a little spacebetwix the 2 fronts, and stand like walles on both sides, and ioyntly faing toward the middest, give them a fruitesse and empty passage. This forme of Horse battaile is called by the Tacitiks a wedge, which was invented by Philip King of Macedony, who placed his best men before, that by them the weaker fort might be heid in & enabled to the charge. As we see in a Speare or sword, the point whereof quickly piercing, makes way for, and letteth in the middle blunt yron.

NOTES.

A Diphalange Antiforms.] This Diphalange is thus defined by Suidas's Suidas in A Diphalange Antiforms is that, which hath the file-leaders placed in the mid-Industry defi, and the bringers up ordered without on both flanks in deductions: which words differ a little in speech, in sence are all one with Alians. They both agree that the file-leaders should be placed within the middest of the battaile face to sace in deductions, the bringers up on the flanks without. In the text_and in sashing in the same placed within the middest of the battaile face to sace in deductions, the bringers up on the slanks without. In the text_and in sashing in the same placed within the middest of the battaile for the same placed within the middest of the battaile face to save the same placed within the middest of the battaile face to save the same placed within the middest of the battaile face to save the same placed within the middest of the battaile face to save the same placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the battaile face to save placed within the middest of the ba

a Arianlib.5-11

himselfe and his friends that were about him. This example hath Polibyus of the Amphistomus Phalange, wherein he both sheweth the form, and the vie of it. namely, that it hath a front both waies to receive the enemics charge before and in the reare. Arrian hath another example in the battaile between . lexander the Great and Porus a king of India; his words are to this effect; lexander was now come within the reach of missine weapons, when he fent his Archers on horsebacke against the left wing of the Indians, to molest the enemy on that side. both with multitude of arrows and with incursion of the horse : and himselfe also ba uing with him the troupes of Companies, spurring on against the same wing, wfine all celerity to fall upon them (who were yet out of order and in a wing) before they could reduce themselves into a Phalange. In the meane time the Indians knitting together their whole power of horse made head against Alexander with all speed giving their horse a full carriere. Then Canus, as was commanded, showed himselfe at their backes. The Indians feeing this, were forced to order their horfe in an Amphistomus exposing one part (the most and strongest) to Alexander, the other to Canus and his troopes; which thing troubled the array and mindes of the Indians. And Alexander, taking hold of the opportunity, charged those which were opposed to him in the instant, while the other were facing about to Canus. The Indians endured not the charge, but fled to the Elephants, as to acastle that was friend. Hitherto Arrian. In these two examples is lively fet forth the nature and fathion of the Amphitomus phalange. And albeit both the parties that vied it were beaten, yet the cause rested not in the forme, but in the valour of them that fought against it, if the Romans in one example, of Alexander in the other; Alexander himselse vfing this very forme in the battel of Gaugamela, obtained the famous victory against Darius, which is described by Arrian in his third book, as did b also Scipio against Afdrubal in Spaine: so then by that which hath beene faid the difference betweene the Antistomus and Amphistomus phalange may easily appeare; which albeit they either of them fight against the enemy in two places of the Phalange at once, and are like one to another in that respect, yet they differ in the places of the fight, the one receiu ing the charge in both the flanks other in front and reare. They are both defentive & statary and if moue with you either of them during the charge of the enemy, you presently break the form, and lay the backe of the foldiers open to be annoied, especially if the enemy ouertop you in number: otherwife it will be no inconuenienceto divide the battell, and to fight apart with both; For that the Antiftomus may be divided, Alian teacheth in the next Chapter: for the Amphistomus, hee faith the like in this Chapter in these words.

3 And alf being divided into A Diphalange.] A Diphilange is when a Phalange is divided into two, and being in one body, it is called a Phalange, in two bodies a Diphilange. About the Diphilange Amphifomus there is variance among it the writers of this Art. **Elian* would have it to bee framed of a Phalange Amphifomus diffoyned, and in the middeft divided into two parts: fo that the fore-front is made with one of the hinder front with the other Phalange. The Treatile of Military Appellations, annexed to the end of Sadas faith, that that is a Diphilange Amphifomus, which hath the file-leaders on the outfides of both the flanks in a deduction, and the bringers vp within. I take **Elian* to be in the right; for if the Amphifomus Phalange mult have the front and reare opposed to the enemy, what reason is there why the Amphifomus Diphalangy should not be of the same nature, confi-

e Arian lib.3. (o C) b App.in punicis Pag. 9.

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The Tadiks of Elian, or

himselfe and his friends that were about him. This example hath Polibyus of the Amphistomus Phalange; wherein he both sheweth the form, and the vie of it, namely, that it hath a front both waies to receive the enemics charge before and in the reare. Arrian hath another example in the battaile between lexander the Conserand Power Line of Indiation woods grant this affect .

lexa on k botk ning all c coul geth their back oppo troo taki white but two lang fted

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> plac yct the moi brea ally ence mus fton 3 lange twoil rianc of a 1 parts ther] Snida ders

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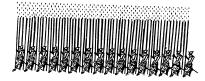
The Horsmans Wedge

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dering that the Diphalangy Antistomus hath the leaders, in the slankes, as the Phalange Antistomus hath: which appeareth not only in the next Chapter, but also in divers other places of this Booke : neither doe I reade any where, that the Antistomus hath to do with the front and reare, nor the Am-

Cap 40. A Dyhalange Antistomus





himselfe and his friends that were about him. This example hath Polibyus of the Amphiltonius Phalange; wherein he both sheweth the form, and the vic of it, namely, that it hath a front both waies to receine the enemine charge before and in the reare. Arrian hath another example in the battaile between a lexamler the Great and Forus a king of India; his words are to this effect; a lexameter was now come within the reach of missine weapons, when he saw that the reares a lexameter was now come within the reach of missine weapons, when he saw that the reares a true for the field was the field the rearest that the same that the rearest that the rearest the field.

the Art of Embattailing Armies.

dering that the Diphelasty Antiftomus hath the leaders, in the flankes, as the Phalaste Antiftomus hath; which appeareth not only in the next Chapter, but also in disers other places of this Booke; neither doe I reade any where, that the Antiftomus hath to do with the front and reare, nor the Amphilionaus with the flanks.

The mards of direction in the Amphistania.

The hinder

r Halfe files, face about to the right or left hand.

2 Charge the Pikes both waies in front and reare.

To restore to the first Posture.

The hindermost 2 Halfe files, face as you were.

Of the Diphalange Antistoman.

CHAP. XXXX.



Diphalange Antiffement; is that which hath the file-leaders placed not in a deduction outwardly, but inwardly face to face one against another; and the reare-Commanders without, one halfe in right; the other halfe in a left deduction. This forme is viced against Horse, which give on and charge

wedge-wise for the wedge thooring forth in a point, and having the Commanders following in the stanks and indemonring so diffener and breake the Front of the foot, the Leaders of the foot fore-feeing their purpose, place themselves in the middest, with intenteither to repulse them on else to give them a thorow passage without loss. For the wedge sieth vpoor the foote in hope to charge the multitude in the middest; and the foote sport and the foote in the receiver the a stronts, and stand like walles on both sides; and simply feeing toward the middest, give them a struitests and empty passage. This forme of Horse bartaile is called by the Tackits awade, which was invented by Philip King of Macedony, who placed his best membesore; that by them the weaker fort might be held in & enabled to the charge. As we see in a Spean, or fword, the point whereof quickly piercing, makes way for, and largest in the middle blant yron.

NOTES.

A Diphalange antiforms: This Diphalange is this defined by Saidas a saidas at A Diphalange Antiforms is that, which both the file-leaders pland in the mid-bodary deft, and the bringers up ordered without on both flush indebations: which woods differ a little in speech, in sense are all one with a saidant. They both agree that the file-leaders should be placed within the middest of the bantaile said the said and the said the said that the file-leaders should be placed within the middest of the bantaile said, in faithioning of the bantaile, there is no difficulty. The file-leaders must be

make small resistance; they had two long staues appointed with sharpe iron faitened to the bearne of the chariot bearing out before, and fythes flanding

Four fe without danger to his people. This was the provisioning Alexander grings

the Chariots : The event followes. After the trumpets had given the figne of

bataile, the armies charged one another casting forth great gries : And first the fi-

thed Chariots flying out amaine, gave much amazement and terrour to the Macedoni-

ans. For Mazzus one of the Generals of Darius bie the ff. 1: 10 mbe mil to beake the

falling on of the borfe more terrible, came thundering with his wounded barge in

the reare of the chariots: But when the Phalange to make the The The Late and the finan

beat his target a ccording to the Kings direttion, shoot look uponis north W reafon

whereof many of the chariots, the hor fee being affricand proma suste; and hith waresistable violence rushed upon their owne people : other falling upon the Macade,

mians, who made large distances, those which entered were partly onerwhelmed with

darts, partly passed queit thorough, some being northeapoids the violence of their course, and working mightily with their sharpe sites, broughs with them many and

Sundry kinds of death: for the force of their fithes bad fuch power to deftroy, take

from many it cut off the armes, and targets and all, the necks of not a few were carned.

heads falling to the ground the eyes yet feeing, the commentation aftered the

the it tore but the fides and put them to a feedy death, littherto of theh the yof

Disdorn, But where he noteththe harms that came from the filled des tots.

Itaken they might have beene anorded, if the differences har there wile

trough, because I finde in Xemplon in the bassale between drifter second Cy-

mentioned by me before, that many of the charices of the Persons tunne

thorough the Phalange of the Grecians without hurr no any manual Tout

torne then to the vie of this forme, it hath heesetofore; and may abhirdey

bee put in practice against horse; and not early against horse ordered ara

wedge, but also giving on in a fquare, if it be for they charged by the play; aid

the opening be wide enough, and fudden to receive the frant of the limite,

For against a grosse of horse, they cannot have time to open wide enough;

and if they open too timely, they leave liberty to the horse to charge either

of the parts opened, as themselves shall please; and by dividing themselves,

they diminish their owne strength.

afunder whatfoeuer came in the way : the horse were same that hardly to be wounded, as you may fee in the figure of the as a standard of the same than the figure of the same than t Sand Perform on this Chapter. * Alexander at Gaugamela being to fight . Died Balleng. with public, who had many of this kinde of chariots, and fearing the danger 1922 they unofit being to his army, commanded his Phalange of foot, that when the armathy and District aby acidit they food dent themselves food to food to mich the food Court at a take. and vanting contrary way. But if by such meanes they would have be repressed, when he welled when to open and make wide distances, thorow which they with held within

placed in the micklest within, the bringers up on the stanks without; and the barraile being first closed, must be juddenly opened upon the charge of the Harfeshite middelt, and the file leaders dividing themselves halfe on one fide, halfe on the other and facing to the middle space with flieir whole files push at the Horse with their Pikes, as they passe thorow. It is called a Diphalange because the phalange is parted in two; as the battaile opposed against the Calembolos is named a Triphalange, because it consisteth of three parts fenerall, and in the ninth Chapter the whole Macedonian plalange is named a Tetraphalangarchy, because the body is divided into source severall parts: and it is named a Diphalange Antistomus, because as the Phalange Antistomus receiveth the Horse without in the flanks, and so repulfeth them fo this altering that forme, onely by placing the file-leaders in depth within, and opening upon the fudden receive the Horse in the opened voide space, either to be overthrowne by their Pikes, or else to give them a passage without danger to themselves. This is one of the defensive battailes whereof I spake before. It is put in practice faith Elian

When the Horse charge Wedge wife What a Wedge is, and of what force a. mongst the Horse-battailes, I have noted upon the 18 Chapter. Against it Elian opposeth this forme of foot? But is there no other vie of it? Yes. For both the Calembolos and Peristomus are as it were daughters, and proceed our of the loyres of this forme, both having their file-le ders in deductions within the body, and both opening, the first the front, the other the whole body, when they goe to charge; and yet the Diphatange Antiftomus is defenfine, the other two offenfine formes. I will accordingly as I have begun, illustrate the manner of the Dephalange Antiftomus with an example or two. Exerophon describing the fight that was betweene Artaxerices the king of Persia and Cyrus the younger; telleth of Tissaphernes (one of the source Generals of Artaxerxes his army, that he fled not in the first togning of the armies, but brake thorow the Grecian Peltasts (targetires) that flood embattailed by the riner. Breaking thorough he flew no man : for the Grecians opening their battell, ftrooke and threw darts at his horsemen, as they passed thorough. Episthenes the Amphipolita mahoheld the estimation of an under franding fouldier, was then commander of the Petrasts. Tiffaphernes ther fore withdrawing himfelfe as one that had the worst, returned no more to fight, but going to the Grecian Campe, met the King there. So Xemphon Out of which pallage wee may perceive the vie of this manner of embarraciong. Taffaphernes chole of our the Grecians to charge the Peltalts the weakest kind of fouldiers to make refistance against the horse, by reason they were furnished with small surgess onely and darts. Then hee chargeth with his horse in a full Carrere to avoide the fury of the horse, they opened and gaue him a free paffage, but not without stroakes, and darts sent at his horse; and fo made his charge more hurtfull to himselfe then vnto them : I cannot fay the file-leaders were here in the middest, as Elian requireth; because the charge was fudden and vnexpected. In premeditated defences, there is no doubt, but it is the better way to place the file-leaders in the middest, confiltering they are accounted the strength of the battell, and in all conueniences are first brought to fight, especially being armed men, and able to offend the horse with their Pikes; This opening then availed against the giving oursthorse ordered in a narrow front : for that was the manner of ordering the Persian horse; and it may serve for any horse-battaile if it bee

conceiue not, valesse he should seeme to make **Eliza** contrary to himselfe. For the Amphistomus Diphalenge, hard nothing to doe with the stanks, as appeareth by **Eliza** in the 24 Chapter. This Diphalenge fightesh altogether in slanke, as the description declareth.

The Phalanges of the Diphalange Peristomus.] What a ming is, and what dedaction I have thewed before. The meaning is, that the Phalanges Peristoinys are both of them led obliquely (with the file-leaders in flanke) and in two deepe bodies; whereof the one hath in purpose to charge the right flanke, the other the left flanke of the adverse square battaile.

The ablique deduction on the region band.] Albeit both these Phalanges are called oblique, yet we may not imagine, that these Loxe phalanges are the same that is described in the 30 Chapter. For in that one of the Phalange store that is described in the 30 Chapter. For in that one of the Phalange store are the sight, the other advances to involve with the enemy, in this both fight at once, and have their advantage by charging the stanks of the enemy. That began the sight in front exhad there the size leaders, this in both slanks; this seeks to encompasse, that to avoid encompassing it selse, as I have shew-

ed in my notes vpon the fame Chapter.

3 The oblique deduction on the right-hand, having the file-leaders without. 1 must imagine, till further information, that here is a fault in the text: my reason is this; all deductions are made to oppose the file-leaders against the enemy in fight. So is the right hand deduction vied, when it is suspected the enemy will charge the right-hand flanke : the left-hand Deduction when it is listpected he will charge the left; to in wheelings we turne the front against the enemy to in countermarches. Now this forme being invented to encompaffe the enemy and to fight upon his flankes. I would thinke the fileleasters ought to be placed on the inward flanks of the Diphalange; as it is in the Calembolos; for were the bringers up to be within, they should fuframe all the weight of the fight, the battaile being once divided, and the file-leaders flanding without thould idlely bokeon, which is contrary to the military discipline of the Grecians, whose care was to vie the file-leaders in fight as much as was possible. Neither is at thereupon to be concluded. that this Diphalange and the Diphalange Antiformus are all one. For afthough both have their file-leaders within, yet doe they differ both in forme and end. In forme, because this moueth forward with both Phalanges, the other flandeth ftill: this is oblique, the other in a fireight line; that hath the front of the two phalanges even, this (as it falleth out in the motion) fometimes the one more forward; fometimes the other. In their ends, because this goeth so affault and to breake the enemies battaile, the other flantleth fall and feekes onely to fane it felfe inhe one being offenine, the other defensive. So that, as I said before, the Calembolos and this are both framed out of the Diphalange Antiftomus both having their file leaders within the middest of the battaile; and yet differ in that the Calembolos is but one body hollowed within this divided into two bedies:

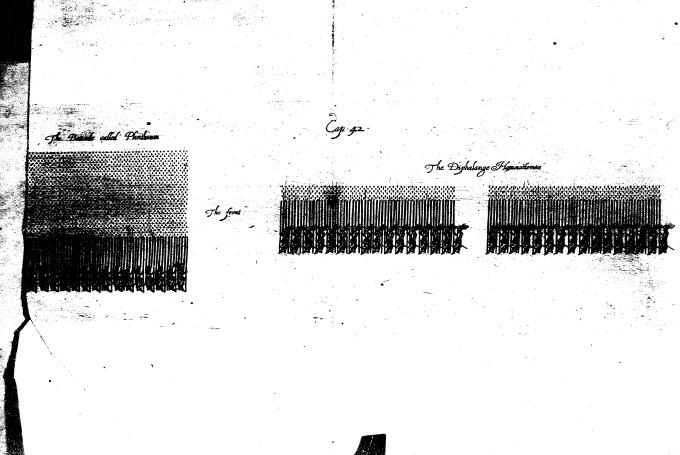
and they fearing to be emissed. The case of this square is almost all one with the square against which the Carlembolos is opposed. For both are in danger to be enclosed. Now as the other square was fine to call it fellows into a Triphalange, and to oppose two of the planage against the two wings of the Calembalos, referuing the third for all accidences to this square district in fellows.

The Tatticks of Alian, or

Phis. 111.C.

right-hand battaile of the Peristomus, the other against the left; for by this opposition they inhibit the enemy from attaching their flanks. Of this, forme I finde not many presidents in the Greeke history; I will receite one. ly one out of Arrian concerning Alexander, which if it hit not this forme in enery point, yet it hath fully the effect of that which is intended by Alian: Alexander being to deliver battaile to Porma King of part of India, lying on the other fide of the river Hydaspes, found his enemies army to be thus embattailed; He had placed his Elephants in the front 100 foot distant one from another; and he placed them there to give terror to Alexanders Horfe: for bee imagined that no enemy durft approach the spaces between the Elephants, neither with Horsefor feare of the Elephans, and much lesse with soot, because the armed on his side were there to receive them, and the Elephants would tread and trample them under their feet. Next he ordered the foot, not in an equall front with the beatts, but in a locand front after them, so that the files came up almost to the spaces between the Elephants; besides, he added foor upon the wings about the Elephans. On both the wings of the foot be ordered his Horse, and before them his Charlots. This was the embattailine of Porus. Alexander as soone as he saw the Indians stand in battaile array, caused his Horseto make alte, that he might have his foot come up, who advanced still forward. And when the Phalange was come unto him running, he embarrailed it not pre-Cently, nor forthwith ledit against the enemy, lest he should deliver it weary and out of breath into the hands of the Barbarians, that were fresh, but tircling and riding here and there in rounds with his Horfe, be rested his foot, and gave them time to refresh themselnes. And after he beheld the Indian manner of Embattailing, hee thought is not good to give voon the middle (of the front) where the Elephants stood, and the Phalange was close ordered against the spaces of the Elephants, searing the reasons shat led Porus to embattaile in that forme. But, as he was stronger in borfe, taking to him the most of his Horse, be freeded to the left wing of the enemy, in purpose to give on there, and fent Conus with Demetrius his troope and his some troope against the right wing ; commanding him shat when the Barbarians seeing his troopes, should turne their strength of Horse against him, Coenus should inuade their backs. He gave the Phalange to Seleucus, Antigones and Tauron to lead; commanding them not to all on, before they saw the enemies foot and horse put into a bransle by his Horse. What the euent of the fight was, I have before shewed in my notes vpon the Phalange Amphistomus, where I have cited the latter end of this history. Now may be seene by this example, that Alexander began the fight not in the front, but in the flankes 3 and the cause why he did it was because the front was exceeding strong by reason of the Elephants. And by this meanes defeating first the enemies Florse, then his foot, he left the Elephants naked, and without defence against the darts and other missive weapons of the Macedonians, and gained a worthy victory against a strong enemy. Now albeit this example come not home in all points to the Periltomus (for Alian limiteth it to foot against foot, this fight was betwixt Horse and Horse) yet is the reason of warrealike in both. For as the file-leaders of the Periflomus give on vpon the flanke of the adverse square, which is the weakest part of it; so did the Horse of Alexander surmounting the Indians both in humber and valor, give on upon the flanks of Ports his army which was weakeft, and so began and ended the victory.

It is called Peristomus, as basing the from bent. That is, being divided into halfe, the one Phalange marching obliquely, commeth vp and chargeth one



flenke of the adverse from against the end

2 Face to the 3 One wing enemy

of the 1



in figure and number, quall. In number, (5) In this foure-fidout archer or flinge ther, and both haud it is called a Dipha

I To this form in deductions; lately your contrary fide them either your And therefore Sucietor Palan; condens leaders are ordere. Ilkewife in Alian leaders of the Maders: For as Alia wing not by file in the front of the the battails, as log 2 Because are him men that market tion is of a Diphe this forme is call thed to be, because

the Art of Embattailing Armies.

flanke of the adverse battaile, the other chargeth the other, and so hath the fronts against the enemies both waies:

Words of direction in the Peristamus.

- Wheele your front into the middest of the battaile.
- Face to the front.
- 3 One wing march out obliquely, and charge the right flanke of the enemy, the other the left flanke.

Of the Diphalange homoiostomus, and of the Plinthium.

CHAP. XLII.



Diphalange (1) Homoiostomus is so named, because a (2) whole file (that is 16 men) mouing by it selfe; another sile followeth it: and it is therefore called Homoiostomus, because they that follow, follow in a like figure.

3 This kind is opposed against the Plinthium; (4) Plinthium; (4) Plinthium; (4) Plinthium; (4) Plinthium; (4) Plinthium; (4) Plinthium; (5)

thium is a forme of battaile, that hath the fides equall both in figure and number. In figure, because the distances are enery where equall. In number, because there are as many men in length as in depth. (5) In this foure-sided battaile are none in the foure sides but armed, without archer or slinger to helpe: when therefore two Phalanges march together, and both have their leaders in a right-hand or lest-handed deduction, it is called a Diphalange Homoiossomus.

NOTES.

IT of Omoiostomus is a Diphalange, the battailes whereof haue like fronts. It of this forme is incident, first that it be marching, then that it march in deductions, I assign, that the deductions be vpon one and the selfe, and not vpon contrary sides, viz. that the file-leaders of the Phalanges, be all of them either vpon the right hand, or vpon the left hand of their Phalanges. And therefore Suidas defineth it to be a Diphalange, which bath the leaders of either thatmize ordered in the same side of the march. Where he saith that the leaders or ordered on the same side in both Phalanges (which words are likewise in Elian in the end of the Chapter) weemust vnderstand not the leaders of the March, but the file-leaders, who are also called information, or learning on the same side of the same side

2 Because a whole file.] I am out of doubt that this place is corrupted: any man that marketh the coherence will easily be of mine opinion. The inscription is of a Diphalange, which consisted of two phalanges. The cause why this forme is called a Diphalange, Homoiossomus, is in these words assigned to be, because a whole file, that is, 16 men mounts, another file followsth is:

the Art of Embattailing Armies.

4

. Etas c.7.

let one file follow another, what is that to two Phalanges? Every Phalange hath many files in it, as the * feuenth Chapter will teach vs; nor will any man say that a file is a phalange, nor that the following of one file fingly after the other will make a Diphalange: the truer cause is alleadged in the words following: It is therefore called Homoiostomus, because they that follow, follow in the like figure: which words albeit they be generall, yet being explained and particularised in the end of the Chapter, they shew, that it is valled a Diphalange Homoiostomus when two phalanges follow one another, either in a right, or a left hand deduction. And by that part of the text the nature of the Homeiostomus is sufficiently expressed.

DA fquare bar-

3 This is opposed against the Plinthium.] How this forme should be oppotails of men and fed against the Plinthium, I must confesse I yet understand not, unlesse it be that being in a march, the Plinthium charge one of them on that fide where the deduction, (that is in the front, for the flanke is now become the front) (the file-leader facing to the enemy that way) and the other if it be the leading phalange retiring & whealing, the following file aduancing and whealing) give vpon the flank of the Plinthium, so that the Plinthium be charged both in front and in flanke, which is no small advantage in fight; for otherwife if the Plinthium meet the Phalanges fo following one another, and charge the front which leadeth (which indeed is not the front but the leading flanke, in asmuch as the march proceedeth not by file but by ranke, as Ælian hath) the deduction not onely loseth the benefit of bringing the file-leaders to fight, but is also subject to our winging, and by that meanes in worse case then is the industrion which hath the file-leaders in front. There are other vies of the Homoistomus, then are here specified by Elian. For the Deduction directing the front against the enemy that appeareth, or is like to appeare on the flank of the deduction, the phalanges may fitly fecond one another, when either of them is charged, not valike the two battailons of La Mailes Second foot, which la Ngie holdeth sufficient to repulse the charge of horse in open field or Champeign. And if both the deductions be charged at once, they are at no greater inconvenience, then if they stood ranged in ordinary manner, being either of them 16 deepe, and the fronts which are in the deduction ready to receive the affort of the enemy, and the rest of the limmes dispofed, as in the ordinary Phalange.

4. Plinthium is a form of battaile. This definition coprehendeth not all Plinthium.s, for there is a kind of eu ε-fided Plinthium (it is called σοταίορο, which hath the front &flanks of one length: and it is it which Elian here defineth. There is also a kind of Plinthiu that is deeper in flank then the front is long. which of ancient time was called * awyor in greeke, in english a tower, the aname of Plinthium is derived from wide, a brick, because as the bricke is square, so is this battaile, which is the reason I thinke, that it is often confounded with Plesium, this being also a square battaile, and the name deduced from the mould wherein brickes are fathioned, which mould is called in greeke Thusing and The difference betwist them according to Ælian is, that the Plinthium is a perfect square equal both in length

and depth, the Plesium a square longer in front then slanke.

5 In this figure are none but armed in the foresides.] What then becomes of the light-armed? they must be conuaied into the middest; and the Plinthium ought to be hollow within as well to receive them, as those of the army that

are vnfit for fight. Leo hath this precept : If the enemy be horfe, you are to order the army into the Square figure of a Plinthium, and cast into the (hollow) middest the carriage, beafts and carriage, and without them the armed, and furthest without the archers, that so you may difmarch in safety, yet this placing the archers without is contrary to Alian, & to many experiences mentioned in the Greeke history. "Timorheus the Athenian purposing to passe by the City Olynthus; and searing the Olinthian horfe-men, ordered his army into a broad fronted Plinthium, caffing the a Poy 2795 250 baggage and horseinto the middest, and causing the waggons to be driven thronging and fastned sogether, the armed foot being without on all side; so that the Olynthian borfe could not come to distresse them. Briidas the Lacedemonian being in Illyri- Porentasyin um for saken of the Macedonians his allies, expecting to be set upon by Arthybeus preside. and the Illyrians, reduced his armed into a square, and taking the light-armed into the middest, resolved to retire : the youngest hee appointed to fall out if the enemy charged on any fide; Himfelfe with 300 chofen men took upon him to fecure the reare, and to resist the ene my that should first come to charge. The Burbarians seeing him dismarch, followed with great shouts and cries, imagining heested, and hoping to take hum and cut his throat: but when the light-armed fell out and met them, where foener they gave on and himfelfe with his selected hand received them, and contrary to their opinion stood firme, and repulsed the first charge, and ever as they forbore to charge held on his way : the mift part of the Barbarians left the Grecians, and appointing a party to follow their reare, the rest pursued the Macedonians that fled, an killed as many as shey lighted upon. The like forme was vied in Elephants by the captaines of Eumenes and Pencesses against 1 furprise of Augenus. Diodorus Siculus reporteth the history thus. b Antigonus being advertifed, b Diods Siciles. that all Eumenes his forces were come unio him but onely his Elephants, and that 691. the Elephants were expected out of their garifons and were farre of slone, and without ayde of horse and foot, sent against them 2000 spare in helin Medes, 200 Taceptines, and all his light-armed foot; for hee boped that failing upon the Elephans. alone, hee might easily become master of them, and deprive his even of his greatest frenghi. Eumenes cafting in his minde what might happen, diff stched way 1500 of his best horse, and 300 light armed for. Antigonus people appearing first; the commanders of the Elephants ordering the beafts into a cliathium, marshed forward, throwing the carriage into the middest, bruing 300 horse and no more to make head in the reare; the enemy falling on with all their might, and holly charging, the horse being overlaide with number, wer parto flight. The riders of Elephanis at first made good resistance and stood soit, albeit they were wounded on all sides, and not able to hur; the enemy; and being now at the last cast sthe forces of Earnenes weekpectedly herving themselves, snatched them out of all danger and difresses to poyer 99 \$ 47 films vsed this forme against the Thebans; the Arginalpides against dail - Come see 29.5 gonus: the history is this; Antigonus having the better against the horse of the so-Eumenes, divided his horse into two parts, the one he tooke to himselfe and observed Eumenes, the other hee gave to Prihon willing him to charge the the Argiraspides and filuer targateers old soldiers of Alexanders deprined of the aide of the horse, but they casting themselves into a Plinthium retired fafely to the river. Elian remembreth nothing concerning the vse of the Plinthium: But wee may learne by the examples rehearfed, that it was then practifed when the enemy was too strong and able to charge every way; and it is one of the foresided battailes that is mentioned in the 36 ×3 Chip and vied principally against horse, but sometimes against horse and soor. Philip

Se die re morred PRICE EUTRIC PTURETY.

Peradox.

Died. Speu. 116.16. the father of Alexander the Great, being to take armes against the Illyrians who v. Surped many Cities of his kingdem, leuied 10000 foot, 6 600 hor fe, and with them entred the enemies countrey. Bardilis the Illirian King met him with as many foot and 500 horse: when the armies came together, and with shours sounced battaile, Philip hearing the right wing, and the best Macedonian souldiers, commanded the Lorse to fall on and charge the enemy in flanke : him felfe giving woon the front began a strong fight. The Illyrians ordering themselves into a Plinthium, valiantly abode the onset; and at the first the fight was equall, and so continued a good while by reason of the valour shewen on both sides; afterward the horse plying hard the reare and stanke, and Philip with his choice men valiantly laying at the front, the multitude of the Illyrians were forced to fly. Heere the Plinthium refifted both horse and foot; I will ad one example more of repulfing horse, the army being cast into a Plinthium. Marcus Antonius sceking to subdue Persia, and to revenge the losse which Crassus rectived by the Parthians, (for in that warre Cræsus himselfe was staine, and his army Plus in Antonio. defeated) and having laid siege to a great City called Phreata, and sinding not the secceffe he looked for, determined to dif-march and lead his army out of the Countrey 3hauing first made truce with the King of Persia, proceeding on his tours cy, he was set up. on by the Parthians; but being repulsed, they retreathat day. Antonius kereby resolucd what to doe : and strenthening his reare and flanks with many darters & slingers, he formed his army into a t linthium, and willed his horse to fall out and repul; e the eenmy, but not to follow the chase too farre. The Parthians the mixt foure daies began to be more coole, and neither charged nor were charged, and making winter their pretence, were glad to resire to their houses. By this president, wee may see, that the Parthians (who were mighty in horse) were sierce vpon the Romans as long as they held their ordinary kinde of march, but after they had or-

Words of direction in the Homoiostomus.

r Wheele your battailes (if they stand in even front) to the right or left hand

dered themselves into a Plinthium, so that the Parthians could not come vp to them without much indangering themselves, they thought it best to let them quietly passe and goe whither they would. And thus much of the Di-

a March one battaile after the other.

phalange Homoiostomus and of the Plinthium.

To restore to the first Posture.

r Face about to the right or left hand.

2 Wheele the battailes to the right or left hand, according as the cafe requireth.

3 Face as you were at first.

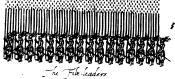
For

	For the	e Plinthium.	•
Gebore has 1	3	1 4	
hold the fittest wa	ttailes standing to y to make a Plint	gethler in an euer hium	Front, this I would
in going forward	wheelers of	or march on;	Front.
ling backe vie the	Lacedemonian c	ountermarch:	<u> </u>
termarch then wh	eel = ab a l C i	with a coun-	-

or having the leaders of the Committee o on, having the leaders of the former Phalange in a right-handon, having the leaders of the author rhandle in a left hand Deduction, and of the following Phalange in a left hand Deduction and believe the leaders on, so that the battailes march counterchangeably, one having the leaders

* A Diphalange Heteroftomus.] As the Homoiostomus consisted of two Pha-Alanges, & both proceeded by deduction, so must this forme. They difpied syn while the father of Alexander the Great, being to take armes against the Illyrians who verses tred the enemies country. Bardillis the Illrian King met him with his many sous and 500 horse: when the armies came together, and with blowns sound but state, Phillip hearing the right wing, and the bost Macedonian souldiers, commanded the horse to fall on and charge the enemy in stanke: himselfe guing upon the front began alroing sight. The Illyrians ordering themselves into a Plinthium, valiantly abode the onset; and at the first the sight was equall, and so continued a good while, by reason of the value flow some on both sides; a fireward the borse splying hard the reare and stanke, and

(ap. 43 The Dighalange Fleterostomus





The bringers-

3 Face as you were at first.

For

If there be 4 battailes ftanding togethler in an euen Front, this I would bold the fitte first bartaile aged a Plinthium.

I Let the first battaile stand firme, or march on; in going forward wheele to the right hand; in falling backe vie the Lacedemonian countermarch.

2 The 3 countermarch the front with a countermarch, then wheel to the left hand, then march forward, and place it selfe behind the right hand flanke of the first, that the Front of it may be in a right line with the said flanke.

3 The 4 in going forward, countermarch the reare with a Macedon countermarch, then wheele your battaile to the right hand, face abount; then wheele to the left hand; then march and apply it feife to the point of the ltrft battaile, as the third did to the right then face about, and ftand thus:

4 The 2 countermarch to the right or left hand; then march on til it be beyond the left point of the 4 battaile: then face to the left hand; and marchyp to lay the right-hand-point eue with the right point of the 1 battaile, and face to the right hand, to make the reare of the Plinthium thus:

The feuerall bodies being brought into a Plinthium thus:

The feuerall bodies being brought into a Plinthium;

thum, must front euery way as long as they make Alte. When they march in a Plinthium, they are all to face toward the head of their Front march; that is, the right and left flanke battailes are to face the one to the left, the other to the right hand: The reare battaile is to face about to which hand it lift, and fo march on.

The battailes beside have every one their place of dignity: the first battaile having the front, the 2 battaile the reare, the 3 battaile the right slanke, the 4 the left slanke.

raint rech; and rech; and

of the Diphalange Heterostomus. CHAP. XLIII.

(1) Diphalange Heteroftomus is that which proceedeth by deduction, and of the following Phalange in a right-handdeduction, and of the following Phalange in a left-hand Deduction, for that the battailes march counterchangeably, one having the leaders in one flanke, the other in the other:

2 OTES:
A Diphalange Heterofformus. As the Homoioftomus confifted of two Phalanges, & both proceeded by deduction, so must this forme. They dif-

fer in this onely, that the first had all the file-leaders on one fide, either on the right or left; this the file-leaders of one battaile on the right, of the other on the left hand. For if the leading Phalange haue the file-leaderson the right-hand, the following Phalange shall have them on the left: If the first haue them on the left, the other shall haue them on the right. See the figure. They se of this form is, when the enemy sheweth himselfe on both flanks of our march, and of it the double fided battaile, whereof Elianspake in the 36 and 37 Chapters, may be made by the sleening up the latter to the former and ioyning reare to reare : and if the leading battaile have the fileleaders in the right-flank, it is to make alte when the enemy commeth neer, and the following battaile to fleene up by the reare of it, to make an even front with the leaders of the first. Contratiwise, if it have the file-leaders on the left hand · Lefides, this forme hath further vie, and you may frame of it a Diphalange Antistomus, by skeuing up the following battaile on that side where the file-leaders of the leading battaile march : for by such sleening, the file-leaders of both Phalanges shall be in the middest.

Words of direction in the Heteroftomus.

There need few words of direction in this, onely if the two ordinary battailes stand in equall front, let the one wheele to the right, the other to the left hand, and so march the one before, the other after.

> Of the horse Rombe, and of the foot-halfe-moune to encounter it.

CHAP. XLIIII.



He battaile framed in a forme of a Rombe, was first invented by Heon the Theffalian, and was called He after his name: and to this forme he exercifed and accustomed his Thessalians. It is of good vse, because it hath a leader on every corner: in the front the Captaine, in the rearet e Liucten-

nant, and on either fide the flank-commanders.(2) The foot battaile fittest to encounter this, is the (3) Menoides or Cressent; having both the wings stretched out, and within them the leaders, and being embowed in the middest to enuiron and wrap in the horse-men in their giuing on : whereupon the horse-men ply the foot a farre off with flying weapons, after the manner of the Tarantines, feeking thereby to diffolue and disorder their circled frame of march. Tarentum is a City in Italy, the hosemen wherofare called Acrobolists, because in charging they first cast little darts, and after come to hands with the enemy.

NOTES.

Hebattaile in forme of a Rhombe.] Of the Rhombe is sufficiently spoken in Chap. 6. before; and in the notes upon the same Chapter: The manner of framing of it, and the divers kinds therof are there fet down. The Thessalians vsed not all those kinds but onely that which fileth, but rankes not, as 55 Elian testifieth in the 46 Chapter, which kinde is there also described. It Elian & 46.

> fe-men nghtto by art, Ibattaiit once. n to reare beiamely, r,the E. in order

> > **э** орро-

e thape

s ioyned he word it like all) hornes. * Ægyp-:lus) Was a Diod. Sie.l. 1. p. 9 ! menociuse of the haken by iape of a f the outeides:the b Diol Sic. 1.10. nd Arrian P.78; the inuen-Onofader, constande 21. to a Creffat, 2.65. t is , to enter & 1.24-184.

Sircle being e forme of a Circle feethe hollowgiveth more in fight are whereby

bereof they

he enemy. d. the effiat heedfull Horse and i esteemeth fifted both le a greater,

Darters.

The Tatticks of Elian, or

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He battaile framed in a forme of a Rombe, was first invented by Ilean the Thessiain, and was called the after his name; and to this forme he exercised and accustomed his Thessians. It is of good vse, because it hath a leader on every corner: in the front the Captaine, in the rearest e Liuctennant, and on either side the flank-commanders. (2) The foot battaile fittest to encounter this, is the (3) Menoides or Cressians.

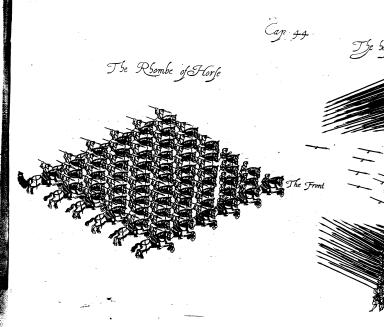
battaile fittest to encounter this, is the (3) Menoides or Cressen; hauing both the wings stretched out, and within them the leaders, and being embowed in the middest to enuiron and wrap in the horse-men in their giung on; whereupon the horse-men ply the root a farre off with flying weapons, after the manner of the Tarantines, seeking thereby to dissolve and disorder their circled frame of march. Tarentum is a City in Italy, the hosemen wherefare called Acrobolists, because in charging they first cast little darts, and after come to hands with the enemy.

NOTES.

The battaile in forme of a Rhombe.] Of the Rhombe is sufficiently spoken in Chap. 6: before; and in the notes upon the same Chapter: The manner of framing of it, and the divers kinds thereof are there set down. The The sla-

the Art of Embattailing Armies.

lians vsed not all those kinds but onely that which fileth, but rankes not, as Alian testifieth in the 46 Chapter, which kinde is there also described. It when e



Darters.

fer in this onely, that the first had all the file-leaders on one fide, either on the right or left: this the file-leaders of one harraile on the

of the or derson i If the fir. the figur flanks of in the 36 former . leaders is and the front wi the left ! a Diphal where th the file-k

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lians vied not all those kinds but onely that which fileth, but rankes not, as Elian testifieth in the 46 Chapter, which kinde is there also described. It Enen : 46. was accounted a forme of great violence, & in that forme the Theffalians got all there reputation, being esteemed the the best horse-men of Greece.

2 The foot battaile sittest to encounter this] The advantage that horse-men have against foot is great, which is the cause that foot-men have sought to helpe themselues by divers kind of embattailing to the end to supply by art, that which they want by force and strength. Of which manner of embattailings, many are fet down in Elian. If more then one troope charge at once, you have the Phalange Amphistomus, Antistomus, and the Plinthium to refift :If but one troope, the Diphalange Antiftomus; All which kinds are before described by Elian. In this Chapter is another kind described namely, the halfe moone, and there follow in other Chapters the plagiophalange, the Epicampios emprosthia, and the wedge: Of all which we are to discourse in order

as they are remembred by our Authours.

3 Is the Menocids or Cressant. Against the Rhombe of horse Elian oppofeth the Menoeides of foot, a name of battaile borrowed from the shape of the moone. For wirm is the moone, and the word which is joyned to make up the composition) signifieth a full shape or forme. So the word importeth a shape or forme of the moon : and yet this battaile is not like all shapes of the moone, but like to the new moone when she hath two hornes, and hath the shape of halfe a circle as it were : In which sence Isis the Ægyptian goddeffe (which indeed was the moone, faith Diodorus Siculus) was a Diod Sicility of pictured with two hornes from the shew which sheem keth being menoeides, that is, the new rnoone, so is a wall sometime called, because of the hollow forme. As when the Rhodians having their wall shrewdly shaken by the engines of battery of Demetrius, reared an inward wall in shape of a Cressant, which with the compasse, comprehended all the parts of the outward wal which were battered. The fame Diodorus calleth it Menoeides: the boidside like was don by the Halicarnaffeans against Alexander the Great, and Arrian P.78; giueth it the name a siring plumatica brick halfe moon; the cause of the invention of this forme, is laide out by one lander & Leo. Oftentimes laith Onolader, confundant. those that have great numbers of min in the field, are wont to figure them into a Cressat, 265. Supposing that in charging the enemy wil be ready to joyne man to man, that is, to enter of 1.4-184. into the semi-circle and fight with them that standen bowed; in doing whereof, they will be bemmed and wraped in in the halfe Circle, the wings of the halfe Circle being to bee drawne togeth er round about them, and the whole brought into the forme of a Circle. And Leo li kewife . The figure bearing the refemblance of halfe a Circle feemeth to be safe & firme for it inclosest the enemy that cometh against it in the hollownesse of the Circle, by drawing out the wings into a Circle on both sides, and giveth more courage to fight age unft them. The causes then to take vp this figure in fight are three; one the advantage of multitude of forces in the field, whereby the Generall is anabled to encompasse; another, the ignorance of the enemy, that ventureth within the compasse of the halfe moone; the third, the efficase of the figi ire which serueth to entrap the enemy that is not heedfull and wary in io yning battaile. It hath beene vsed both against Horse and foot, and form etimes in Sea by one Nauy against another, Elian esteemeth it good again if horse; no doubt when horse charge; and are resisted both in front, and plyed alfo with flying weapons in flanke, they finde a greater,

opposition and disaduantage, then when they are received in front alone. In square battailes of soot the front lying even, the horse in charging abide only the danger before, whereas in the hollow fronted battailes or foot, such as are this form, and the Epicampios emprosibila, they are endangered also in flanke, yea in both flanks, & cannot enter the hollownesse of the front without losse of many of their horse, the depth of the hollownes being as strong (in having the file-leaders in front, and the depth of the file the fame) as a square battaile to resist, and the wings plying and insesting them with all forts of flying weapons : against foot it hath beene vsed oftentimes, and it is the only forme that the Turks by reason of his multitudes, vseth both with horseand foot against Christians at this day.

The Creffant may be framed not onely before fight is begun, but also in the heat of fight: Before the fight, you have an example of the Lacedemonians against Epamino: das, which Thaue cited at large in my notes upon the * 2006. 19.5.41. 30 Chap. * Leo also setteh downe the manner of casting a Nauy into a Cresfantibefore fight. During the fight, Aratus the elder framed a Creffant against the Lacedemonians: Pausanias reciteth it in this manner; In the battaile of the Lacedemonians against the Mantineans, The Mantineans, fish ke, had the right wing, all the rest of the Arcadians thelest. The ms dist was offigned to Aratus, and to the Suyonians, and Achaans. Agis King of Lacedemon, and the Lacedemorians strethed out their battaile to instade the front of the enemy. Agis and his troopes flood in the middest. Aratus after he had imparted his purpose to the Arcadians; fled him fife, and with him that part of the army which he commanded, as if he scared the impr sson of the Lacedemonians; in giving backe hee brought the army into the forme of an halfe moone. The Lacedemonians and Agis thinking they had the victory in their hands, pursued Aratus and his troopes more egerly. The wine followed the King, effecting it no small conquest to have foyled Aratus. In the meane time they preceived not the Arcadians that were at their backe : and the Lacedemonians being encompasses round about, lost both many other of their army, and Agis aljo their King, the jonne of Eudamidas was flaine. Leo alio in fea-fight giveth his Generall counsell how to entrap his enemy with a shew of flight; in giuing backe with fashioning an halfe moone: These be his words in effect; 'If a Generall be to retire before the enemies Nauv, let him retire, fashioning his Nauy into a battaile Menocides, and failing with his poupes forward, and To seeme to shunne the enemy : For if he flye not , but retire fighting, hee shall have his Ships ready to turne upon the enen y with their prowes bent against him. And if need require, he may retire with his poupes toward the enemy : for the enemy shall not dare to emer into the hollownesse for feare of being encompassed. So Leo. The Menocides therefore may be framed during fight; but this caution is to be remembred, that in sudden transmutations of battailes, you vie not the service of raw fouldiers, but of such as have experience, lest all be brought into confuson;and the enemy charge you while you are changing your forme. Now as formes of adl antage are to be fought against the enemy; so is it needfull to aduise what best opposition is to be made against such battailes: in case the enemy vse them. The Rombe of horse was of old time accounted a forcible figure against foot; the horse therein had the better. The Menoeides was inuented to refift and ouerthrow the horse: The foot had beene the better; what was then best for the horse? to abstaine from charging (saith Elian) and to ply the foot with missive weapons, to the end to force them to break

their strong forme of embattailing. So now they stand upon equal tearmes and the foot can with their thot annoy the horfe, as well as the horfe can an-'noy the foot. Llian then sheweth a meanes for the horse to avoide the danger of this manner of embattailing: for foot ving this forme against foot, hee sheweth no remedy. I will set downe what I finde : and here I neede not to repeat the remedy, that b Epaminondas vsed against the Lacedemonian b Diod Syc. 1. halfe-moone : it is related at large in my Notes vpon the 30 Chap. Onofan Onofan Coping Cap. der giueth this aduise : Divide your battaile, faith hee, into 3 parts : with the two 66 Lee cap 200 outwardest charge the Enemies winges : the third that is ordered against the middle, \$ 184. and as it were, the bosome of the Cressant, advance it not, but let it stand firme : for either they that are placed in the middest of the Cressant, shall fand idle; or else aduancing in an cuen front, will throng one another and breake their battaile. For the two fronts fighting in the winges and keeping their place, it is not possible for the halfe circle to come forward with an even front : when they are therefore confused and have broken their array, let the third battaile that remained in the middest for seconds, charge them, as they disorderly advance. If they still keepe their place in the bottome of the hollownesse, oppose the light-armed and darters against them, who will exceedingly distresse them with their missive weapons: likewise you may doe well to frame a Loxe-phalange of your whole Army, and with your two Loxes, charge the winges, preuenting fo the circling and encompasing of the Menoeides. For the Enemy, being a long while hindered from comming to blowes with his whole Army, hall bee kept in play with a few, none fighting but those onely that are in the winges, which first of n.c. sitie must ionne, because of the oblique onset. It will not bee a misse also, kisurely to retire with the Army sometimes, as though you were in scare; or else facing about to make your retreat orderly, as if you fled; and afterward turning sudd inely to meete the Enemie that present upon you. For sometimes the Enemie being over-ioyed in the imagination of a true flight, doth follow unadvisedly, and make a liforderly purfuit; euery man pressing tobe formost, upon whom you may returne without danger, and againe, chase them that foliow you, who will be strucker with a fear in that you Jare contrary to their expectation, turne again & make head against them. One fander giveth here three wayes to refift the Menoeides : one by dividing your battaile into a Triphalange, & opposing two phalanges against the two wings of the Cressant, forbearing and standing firme with the third till opportunity be to moue (which is the battaile that Elian opposeth against the Cælembolos.) The second by vsing the Loxe-phalange against it, as did Epaminondas at the battaile of Leustra against the Lacedemonian halfe moone, as I have shewed elsewhere, namely Chap. 30. 6.7. The third in making semblance of flying; for the halfe moone is a forme, which in standing may well be kept whole, in mouing will soone be broken and fall

into diforder, as * Cicuta an Italian writer noteth very well. If then you faine a Cicuta de la to flye, keeping your men in order, the Menoeides following you will breake distintuition.

to win the day against it, especially being in disorder. Lee giveth the same Lee cap : c. aduise to his Generall, onely he speaketh of Sea matters, onesander of Land 5.291.

Words of direction for the Rhombe.

feruice.

their

of it felfe, and so you have good opportunity to returne, and in all likelihood

For the forming of the Rhombes, see the 19 Chapter, and my Notes vponthat Chapter, §.6.

The Tadiks of Ælian, or

For the Creffant.

First order your body into a long square, Plagiophalanx.

I The 2 file-leaders in the middeft of the square, stand.

2 The next 2 on either hand, mooue forward one foot before the other two, their files mouing withall, and holding their distance.

3 So the 4 next file-leaders each before other, on either fide a foot, 4 Then two more on either fide, aduance before the rest that mooued two foot a peece.

5 Then the 2 next on either fide, 3 foot apeece.

To restore to the first Posture:

Face about. Moue all at once (excepting the 2 middle files) and take your first ground.

Of the Horse battaile Heteromekes, and the Plagiophalange to bee opposed against it.

CHAP. XLV.



HE horse-battaile Heteromekes is that, which hath the depth double to the length. It is profitable in many respecks. (2) For seeming to bee but a few in so small a breadth, it deceives the Enemie, and easily breaketh his forces with the thicknesses strength of the embatrailing,

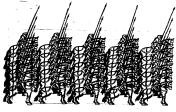
and may without perceiving beied through fireight and narrow passages. The (3) foot battaile to encounter is called the Plagiophalange, or broad fronted battaile. For being but flender in depth, it beareth foorth and extendeth it selfe in length, so that albeit it be broken in the middest with the charge of Horse, yet is nothing broken but a little of the depth, and the fury of the Horse is carried not vpon the multitude of foot, but streight and immediatly into the open aire and field. And for that cause is the length thereof much exceeding the depth.

NOTES.

F the 2. battailes Heteromekes and Plagiophalanx I haue spoken before in my notes vpon the thirtieth Chapter. The Heteromekes is a kinde of Herse, the Plagiophalange the broad fronted battaile therein

2 For seeming to be but a few.] Amongst all the stratagems vsed in Warre, it hath beene accounted alwayes a master piece of skill to deceive the Enemie with shew of forces, that are in any Army: sometime with femblance of more men, then wee have, to feare him, fometime with concealing our number, to prouoke him rashly to fight, and adventure himselfe in battaile. Of these two kindes we have an example in Cesar at the siege of

Federomekes or y Hene of Hone





Gergouia. Cafar himselse writeth thus : When Ca far came into his lesser Campe Colade bell gell. (bee had two Campes at that fiege) to take view of his workes, he perceived that the \$7.763.4.64. bill which was holden by the Enemie, was become emptie of men, which bill a few dayes past, could hardly be seene for the multitude, that covered it. Maruelling thereat he asked of the run awayes the cause (of whom great numbers came flocking to him every day:) It appeared by all their reports, which Cafar also understood by his owne Scoutes, that the ridge of the bill was almost even, but yet wooddy and narrowby which there was accesse to the other part of the towne. That the Enemie mightily feared that place; and were now of opinion, that feeing the Romans had gained one bill, if they should lose the other, they should seeme well nigh enclosed round about with a trench, and shut up from issuing out, and from forrage; that all were called out of the Citie by Vercingetorix to fortifie the place. Cafar hauing a The french con gotten this intelligence, fent at midnight divers troopes of horfe thither, and comman. nerall. ded them to rid up and downe in all places with greater tumult, then their manner was. Assoone as it was day, hee willed a great number of carriage-horse and Mules to be brought out of the Campe, and their pads to be taken off from them, and that the Muleters putting on head-pieces, should ride about the hils in show, as if they were horse-men. To these he added a few Horse, who were to spred themselves abroad hereand there, to amafe the Gaules the more. Hee willed them to addresse themselves, and to draw to one and the same place, fetching a large compasse about. These things were seene a farre of out of Gergouia (for from therice the Campe might well be discerned) and yet in such distance it could not bee certainely perceived, what the matter was. He fent a legion along the ridge of the same hill, and placed it (drawing it a little forther forward) in the nether grounds below, and hid it in the woods. The Gaules here Apoc at increase their suspition, and all the forces appointed for the fortifications of their Campe were led thither. Casar effying the Campe of the Enemie to be woide of men, conneyed Souldiours stragling, as it were, and not in troopes, from the greater Campe unto the leffer, hiding those things by which they might be knowne, and comering their ensignes of Warre, left happily they might bee discried out of the Towne: and gaue instructions to the Legats, whom he had let ouer enery Legion, what he would baue done. After these directions bee gaue the signall: the Souldiers after the fignall given, with all speed fell up to the Munition, and entring, made themselves masters of three Camps of the Enemie. And the speed of their surprise was such that Theutomatus King of the Nitiobrigians, being suddenly surprised in his Tent, as he rested about noone, the upper part of his body being naked, had much adoe to save himselfe upon his horse (which was also wounded in escaping) from the hands of therifling Souldiers. This example of Cafar containeth the two kinds before remembered of deceiving the Enemie. For hee both made a greater frew of horse-men, then hee had, by setting Muleters on horse-backe, and giving them head-pieces, and also dissembled the number of them, who were in the leffer Campe, which gaue vpon the Enemies workes, by conveying Souldiers out of the greater Campe piece meale, as it were, and one after another. The like pollicy yeelded victory to Cafar against the Gaules before: as you may see in the fift booke of his Commentaries. And in this very kinde, that Ælian speaketh of, that is, in making his front narrow and his color developed battaile deepe, and so diffembling his forces, Cleandridas the Lacedemonian 15. 10.742. wonne a noble battaile against the Thurians, as I have noted in the nine and twentieth Chapter of this booke. Examples of the manner of these flights are every where to be found in Histories.

3 The foot battaile to encounter it.] Divers kindes of battailes are fitter (as I conceiue) to bee opposed against this horse-battaile, then the Plagiophalange. And, I take it, it is not therefore here fet downe as the best forme to encounter, and repulse the horse, but rather to shew, that, if you bee not otherwise able to avoide them, you may in this forme sustaine the lesser loffe. For fo much importes the reason of Elian viz. that, if you be broken in the middest by the horse, yet is nothing broken, but a little of the depth. and the fury of the horse is carried into the open field, & not vpon the rest of the foot. If your foot battaile were flanked with a river, wood, trench, wall. or some such other strength, I would then well hold with this reason. For then might the foot open (as in the Diphalange Antiflomus) and fuffer the horse to passe through, and to fall into the river, or vpon that strength, which you were flanked with all. But when the horse breake through your foot, and passe into the open field, they have advantage to turne againe vpon your backe, and freedome of as many charges, as they lift to give voon you. The Plinthium, the halfe Moone, the Epicampios, or hollow-fronted battaile described in the next following Chapter, and the wedge of foot, are to be preferred before the Plagiophalange. For all these kindes are inuented to repulse horse, in what forme soeuer they give on, and some of them. in case the horse be forward in charging, to ouerthrow and discomsit them. Of some of these we have spoken before, other some follow to be treated of. The Heteromekes horse battaile, is not in our dayes much vsed, except it be in marching. The great Commanders of our time, rather in fight, order their horse into a Plagiophalange; which forme they hold more fit for theyse of the weapons of our age. But the Plagiophalange of foot remebred by Ælian to encounter horse, ought to be very shallow in depth. For if it should be according to the old fathion, 16. in depth (which number the file of the Macedonians held) or according to our custome 10. I see not how it is possible for a troope of horse to breake it, or to passe through it into the open field, the depth of the battaile being sufficient to sustaine the charge of any horse. How the Heteromekes, and how the Plagiophalange are framed, I have taught before in the thirtieth Chapter.

Of another kinds of Rhombe for horse-men, and of the soot-battaile called Epicampios Emprosima to encounter it.

CHAP. XLVI.



Nother fort of Rhomboeides there is, whereof I neede say no more, but that it fileth, and ranketh not. I have before thewed the vse thereof; and that **Ilon* the Thessalian was the inventer, and that **Ian** Natedaa husband put it in practisse: the vse thereof is great, it being directed and led in the foure sides by the Captaine, the Lieutenant, and the two

flanke-commanders. It is commonly fashioned of Archers on horse-backe, as the Armenian, and Persian manner is.

Against it is opposed the foot-battaile, called (2) Epicampios Emproschia, ont is hither them finalwas e, it fianfither the end of the en

oter ides In ea- a Cap 44 ch. it it ipbec ore ace his his ird . Polib, 28.8.422 10 B 665.D. in- dialogo.7 pag-279 wali lis " Veget 43-c.1 p. est be iis ıg æ

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fthia, the hollow fronted battaile because the circumduction of the front is like an embowing. The end of this forme is to deceive and over-reach the Archers on horse-backe, either by wrapping them in the void space of the front, as they charge, and give on vpon the ipune, or elfedifordering them first with the winges, and breaking their fury, by ouerthrowing them finally with their rankes about the middle Enfignes. This kinde of battaile was denifed to entrappe and beguile. For opening the middle hollownesse, it maketh shew but of a few, that march in the winges, having notwithstanding thrice as many following and seconding in the reare. So that, if the wings bee of power sufficient for the incounter, there needeth no more: if not, retiring easily on either side, they are to joyne themselves to the bulke of the battaile.

NOTES

(1) A Nother fort of Rhomboeides there is. The inscription of this Chapter A seemeth not to bee right; because the forme of the Rhomboeides here mentioned, differeth not, but is the same, that was last spoken of. In the former hee faid it was invented by Ileon the Theffalian, and in vie a-a capte mongst the Thessalians, and called ile of his name. In this he saith as much, adding onely that Ison, Medeas husband, who was also a Thessalian, put it most in practise. So that the Rhombes seeme to be all one, and the inscription of the Chapter either corrupted or mistaken; and that it ought to bee of the Rhombe and the hollow-fronted battaile to encounter it. I need fay no more of this Rhombe, the forme of it, the manner of traming, and the difference of it from other Rhombes are sufficiently declared in other places before.

(2) Against it is opposed the Epicampios Emprostina.] About the forme of this battaile there is also some difference amongst the learned. Casaubon in his translation of Polybius translateth b Epicampios in Greeke by the Latin word b Polib 28.8.423 Forceps. Of whose opinion suffus Lipsus seemeth to be. If I dissent from so 2665.0. great learned men upon good reason and authoritie, I hope, I shall not in- dialogo, page 279 curre the opinion of arrogancy, when I have spoken, what I thinke, let the Reader judge, as hee pleaseth: I presudicate no mans opinion. For the forreps (tonges) or Forfex (sheeres) which d Lipsins, and Casarbon hold to be all one with the Epicampios, Vegetius refembleth them to the letter V. His Vegetius. words are these: Against it (that is against the wedge) the some of battaile is opposed, which they call Forfex. For this is a kinde of battaile framed of the chorcest Souldiers to the likenesse of the letter V. and it receiveth and shutteth within it the medge. Vegetius saith, the Forfex or Forceps is like the letter V. Of this forme is the Cælembolos in Ælian; and resembled to the same letter in expresse tearmes; as you may see in his thirtie sixe Chapter. So that having the same forme, it must be the same battaile, how socuer they differ in the Greeke and Latin names. This being fo, and feeing Elian in this Chapter describeth the Epicampios by it felfe, and in another Chapter the Cælembolos by it selfe giving a different forme to them both, there is no probability to thinke they should be one. Now besides the forme here set downe by Elian, (which is to bee marked, as it is deferibed,) the description of Xenophon shewes the forme of the Epicampios Emprosthia, out of whose words a man may eafily difcerne, that the Cælembolos and it are not al!

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in this fort [1] and you have the perfect forme of the Epicampios Empro-

the Art of Embattailing Armies.

fthia. The passage is worth the recitall, although it be somewhat long. For it both containeth the forme of the battaile, and the manner of opposition against it. Thus then he writeth concerning the field fought betwixt Cyrus xinoph (rop. ' or the elder, and Crafus . When both the Armies were in fight one of another, and Cræfus being farre superiour in number, resolved to over-front Cyrus his battaile, ordering his owne Phalange in an embowed forme (for otherwise there is no way to ouer-front and encompasse) he framed it on each side like the letter [to the end that all his forces might fight at once together. Cysus feeing this, continued nevertheleffe his march, and held on with the same pace he had done before; and marking how the Enemy had made a the inflexion on both fides before, and extended their wings; doe you perceive, faid be to Chryfanthas, where they have made their b inflexion? Tes, (sid Chryfanthas, and I maruaile at it. For, me thinkes, they draw their winges to turre forward from the front of their owne Phalange. True, (aid Cyrus, and from our Phalange too. But why doe they fo? because they feare, lest the winges being neere to us and their Phalange yet farre of, we should gine upon the winges. But how. (aid Chryfanthas, can they in fo great distance second one another? It is evident, Said Cyrus, that when their wings shall come up, and be right against our flankes, they will turne faces and Phalange wife come against us on all sides, and fight with Us chery may.

· TOV ZOLUTTŘEG ingrisofer error-של המשתוש לו לו ל

Xonoph.Cyrop. 1.7.176.1.

Thus Xenophon of the forme and who of this battaile; the forme being like two Gammas []. on either fide closed, the vse to encompasse the aduerse battaile, and to fall vpon it on all fides. And yet the forme and practife of the forme togither with the manner to oppose against, will more plainely appeare in the following words: Croefus, faith Xenophon, thinking that the Philange (viz. the middest of the battaile) with which himselfe marched was neerer to the Enemie, then the wings, which were stretched foorth in length, gaue a signall to the wings, not to proceede further, but to face to the Enemy in the ground, where they flood; when they had all turned their countenances toward the Army of Cyrus, he gaue them another signe to goe and charge the Enemie. So did three Phalanges fet themselnes against Cyrus Army; the first against the front, the other two, one against the right-flanke, the other against the left : So that the whole Army of Cyrus were put into a great feare. For as a fmall Plinthium comprehended in a great one, fo was the Army of Cyrus being environed every where with the Enemies horse, and armed foet, and Targetires, and Archers, and Chariots, Saving onely in the reare. Notwithflanding affoone as Cyrus commanded, they turned their faces against the Enemies : The (ilence on both lides was great for dread of that, which was expected. But when CVIUS thought meete, he began the Paan, and all his Army answered him. After this they he shouted altegether, and Cyrus putting sources to his horse, with his horsemen gave upon the Exemies flanke, and with all freed came to hands. The foot prefinely following in good order wrapped in the Enemie here and there, and had a great deale the letters. For they charged the wing in a Phalange, so that the Enemy was farilmith put to flight : hitherto Xerophon. In which latter words we may fee the forme of the Epicampios more fully expressed. For first hee sheweth that wings of the Phalange of Crassis were advanced a good way before the front of the Phalange it felfe. Then that the front of these wings advanced, came up asfar as the rearc of Cyrus his Phalange. Thirdly, that they marched

vo in a right line. For Nenophen resembleth Cyrus his battaile to a little Plinthi. um, the battaile of Crafts to a great Plinthium, so that both battailes must be fquare &figured on al sides in right lines, as we have in the 42 Chap. Fourthly, that the front of the Epicampios must be hollow to receive and claspe in, as it were, the adverse battaile: the two gammaes (whereof Kenephon spake) before) joyned together in the vpper part being a true refemblance of the front of this patrell. The manner of the opposition against it is likewise deferibed by Xenoshon. First Cyrus staid till the wings of the Epicampios were Front. come vo euen, and turned their faces against his flanks. Then when they were come vp, commanded he his flanks to face toward them to receive the charge. When the fight was begunne, Cyrus from the reare with referues of horse and soot gave vpon the flanks of the wings of the Epicampios (for in the fight, by reason of turning of their faces towards the ranks of Cyrus his Phalange, their flanks were towards Cyrus his reare) and so charging them in flanke and front they were easily defeated. To return then to the comparison of the Forceps and the Epicampios, by this example out of Xenopkon the difference betwixt them may eafily appear:

the Epicampios making 2 angles in the bottome of the hollow frot, the forceps but one, & the angle in the forceps is acute, the 2 angles in the Epicampios both right angles, & the figures differ as much one fro another,



as the two gammaes io ned toget er differ from the letter V. Elian in this Chapter theweth no otherwise of the Epicampios, but against horse, But the vie Antiquas vied is no lefter against foot as the foregreen and the short against this form against is no leffe against foot, as the former example teacheth, & many other, which / unentt bioder; are to be found partly in History, partly are mentioned in my notes upon ska. 414.686. this booke. A notable experince of this forme you may see noted vpon the 28 Chapter of this Booke, in the fight betwixt Scipio and Astruball; another in the battaile of Milmanes at Marathon, against the Persians: likewise in the battaile of Narfes against the Franks, of which I shall have occasion to speak hereafter. For the framing of this battaile the words of direction may be these: First, make a broad fronted Phalange. Then

Advance your right and left wings, and let the middest of the battaile itand firme. Vnder the name of the wings, I vnderitand fo many files as thalibe thought enough to march out to make the hollow front: the bringers up of wings must ranke with the file-leaders of the middeft.

2 Face and charge into the hollownelle of the front.

To restire to the first Posture.

- wings, face about to the right or left hand.
- 2 March and joyne with the body in an even front.
- 3 Face as you were first.

There is added by fome translators of Alian an Epicampios opisthia to the Epicampios emprosthia. This battaile they would have to be fignified in their words. This kind of battaile was devised to entrap and beguile. But hee that sha' weigh the words following, shal see that Alian: meaning is to deferibe the Emprosthia more fully, even in the selfe same place. For he spea-

* serabet ar

The Tadiks of Ælian, or

keth of the few that march in the wings, and of thrice as many that follow in the reare. Besides, he saith, that if the wings be not sufficient to repuly the enemy, they may retire and toyne to the bulke of the body. The wings are therefore led on first and the maffe of the body followeth, whereas in the Epicampios opithia, and the maffe of the body followeth, whereas in the Epicampios opithia the wings are firetched out behinde, and follow the body. And albeit there be in Elian no words of the Opithia, yet I may not deny that there is an Epicampio Opithia of the Albeit and the state o Enicampior Opithia * Suidas prouethis plainely; He defineth the Enicarea Epicampior Opithia * Suidas prouethis plainely; He defineth the Enicarea Epicampios when the battaile advanceth against the enemy, and bath the wings drawne out in length onboth sides behind. The vie of the Opithia is a fifteen that the property of the Opithia is a fifteen that the property of the Opithia is a fifteen that the property of the Opithia is a fifteen that the property of the Opithia is a fifteen that the opithia opithia is a fifteen that the opithia op Opisithia is as it seemeth, to avoid the encircling or encompassing of an enemy, that hath a greater quantity of fouldiers then we, and meanes to charge our reare. Alexander the Great, being farre inferior to Darius in multitude of men, yfed this forme at Arbela. Diedorus Steulus faith, that after he had ordered his battaile against Darius in a right front, hee framed an Details and Outcred his Datuatic against Darius in a right from, nor primed an Epstampios behind each wing to the end that the enemy with bit multitude might not encompasse the mall number of the Macedonians. And this may suffice for both the formes of the Epicampios.

Words of direction for the Epicampios Opisthia.

1 Aduance your body, and let the wings stand firme. 2 The wings of one flanke face ontward to the right, the other to the left hand.

Torustore, &c.

r Wings face as you were.

2 March vp, and front with the middest of the body.

Of the foot-battaile called Cyrte, which is to be fet against the Epicampios.

CHAP. XLVII.

b pied.Sic.L17.

HE Battaile to be opposed against the Epicampios is called Cyrte of the circumferent forme. This also maketh semblance of small forces, by reason of the conuexity of the figure. For all round things feeme little in compaffe, and yet firetched out in length, and fingled, they proue twice as much as they appeared to be. As is eui-

dent in Pillars which are round, and therefore in light shew the one halfe, and conceale the other. The greatest piece of skill in embattailing, is to make shew of few men to the enemy, and in deed to bring twice as many to fight.

the Art of Embattailing Armiss.

NOTES

b Died.Sic.LIT.

keth of the few that march in the mings and of thrice as many that Collans in a may and I the v be in Epic Opil nem chars mult 592. ATT 4.3.60. ter h Epica.

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HE forme of this battaile, albeit it be a haire Moone, and is called by Polybius Menocides, yet is it in a manner contrary to the Menœides described in the 44 Chapter of this Booke. That turned the concauity or hallownesse backward toward the reare, and the two hornes against the enemy, and fought to encompasse, this turneth the conuexe or outward pare foremost, not the hornes, and endeauoureth to avoid encompassing: For the Epicampios, if a man should enter into the hollownesse thereof, claspeth him in, and is able to charge him in front, and on both flanks at one time. But the convexe halfeMoone avoiding that danger, meeteth the enemy with the bearing out of the halfe circle, and giveth the two wings of the Epicampios enough to doe, being not to be annoyed with the depth of the hollownesse, which remaineth a pretty distance more backward then the points of the wings. So that this forme is fit to be opposed against the Epicampios, and loofeth no advantage of embatrailing; and it avoideth the perill of the hollow front by not entring, and yet maintaineth the fight against the two wings that are thruit out to encompasse; being of sufficient strength to encounter the Epicampios, either of them not dissoluing their forme, or notwith flanding that the wings of the Epicampios retire as Elian prescribeth, when they are ouerpressed, or else the body of the hollownesse advance to make an quall front with the wings, and so vnite their force. Howbeit I have not read in the Greeke hittory examples of this forme fer against the Epica noios, or vied otherwise in fight; onely I finde in Polybius at the battrille of Canne hat Hannibal practited it against the Romans, not trusting to the firength of the forme, but rather with the shew thereof, couering a further drift, to beguile and bring them into his snare. His words are in etfect these: Hanniball, saith he, embattailed his army thus; He placed on the left hand the Spanish and Celtish horse right over a ainst the Roman horse: next to them of foot halfe the Lybian heavy armed; then the Spaniards and Celts, next them the other halfe of the Lybians. On the right wing he ordered the Numidian horfe: After he had framed an even front of the whole Army, he advanced the middle Spaniards and Gauls, and cast them into a conuexe halfe Moone, gathering up the dip h therewith and making it thin, meaning to hide the Lybians with it, and disposing the Lybians ans behinde them as seconds. And a little after he declareth the manner of fight. Then the heavy-armed foot succeeding the light armed, encountred together. The Spaniards therefore and Gauls a while brauely maintained their order and fight a= gainst the Romans; but being ouer-pressed, they turned their back, and retired, dis-Toluing the forme of their half: Moone. The Roman Coborts couragionfly following eafily broke afunder the battaile of the Celes, which at first was ordered in a small depth; themselves transferring the bicknesse of their bastaile from themings of the middelt; where the fight was; for the middest and the wings fought not at the same time. I he middest began the fight first, because the Celes ranged in a halfe Moone, bore much more forward the the wings, having not the hollownes but the prominent swelling of the half-Moone lying out toward the enemy. So the Romans following & running together to the middest where the enemy gave groud, entered so far into the enemies battaile, that they had the heavy-armed Lybians on either of their flanks; of whom those of the right wing facing to the Target charged them on the right those of the left wing, facing to the pike, gane upon their left side soccasio it selfe shewing what was sit to be done so that it chaced

The Tatticks of Ælian, or

as Anniball had forescene, that after the defeat of the Celts, the Romans pursuine the victory, should fall out to be enclosed in the middest of the Lybians. So Polibius of the prominent haife moon or Cyrte, which Amibal vied; to which of purpose he gaue to make thinned, because it should be broken & beaten, and the enemy drawn into the snares as it were, and ambush of the seconds, that is, of the Lybian heavy armed. If it had had the due proportion of depth, it might have flood a longer time against the efforts of the enemy, and disputed the victory against the broad-fronted phalange; against which if it may be opposed, there is no question but it may be set against the Epicampios, because the broad-fronted phalange hath all her forces vnited together, the Epicampios fighteth onely with her two wings, the middest of the battaile being farre from ioyning; vnlesse a man be compelled to enter into the hollownesse of the front, in which case both the front and the wings may an-

Words of direction for the Cyrte or consexe balfe Moone.

First, order the body into a long square or Plagiophalange. 1 Then let the two file-leaders in the middest of the square march

out with their files. 2 The next two on either hand moueright forward one foot short

of the first, keeping distance in flanke, as before. 3 So the next four e, two on each fide: the two next one foot short

of the last, the other two one foot short of them. 4 Then the next foure, two on each fide, each two foot short of

5 Then the foure last, two on each side, each three foor short of the other.

Of the Tetragonall Horse-batteile, and of the wedge of foot to be opposed against it.

CHAP. XLVIII.

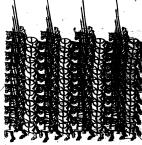
He Tetragonall horse-battaile is square in sigure, but not in number of men. For many advantage may doubte the same: and the Generall for his advantage may doubte the length to the depth. The Persians, Sicilians, and most the length to the depth. The persians, and most the affect this forme, and take it to be easie in framing, and of the Crecians doe affect this forme, and take it to be easie in framing, and

better in vie. (2) Against it is opposed the Phalange called Embolos, or Wedge of foot, all the fide confifting of armed men. This kind is borrowed of the horse-mans wedge. And yet in the wedge of horse one sufficeth to lead in front, where the foot-wedge must have three, one being vnable to beare the fway of the encounter. (3) So Epaminondus the Theban fighting with the Lacedemonians at Mantinæa overthrew a mighty power of theirs by casting his army into a wedge. (4) It is fashioned when the Antistomus Diphalangy

the Art of Embattailing Armies.

in marching ioyneth the front of the wings together holding them behinds

The Florrbattanle square in not in horre



as Anniballhad foreseene, that after the defeat of the Celts, the Romans pursuing the victory, should fall out to be enclosed in the middest of the Lybians. So Politius

of the prominent h pose he gaue to me the enemy drawn is of the Lybian he might have flood ted the victory age be opposed, there because the broad Epicampios fighte being farre from i lownesse of the fre noy him.

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of the Tel

of the crecians doe better in vie.

(2) Against it is c foot, all the fide co horfe-mans wedge. front, where the too fway of the encount Lacedemonians at A his army into a wed

the Art of Embattailing Armies. in marching ioyneth the front of the wings together, holding them behinde

NOTES.

(1) THis Chapter containeth the description of two battails, one of horse, the other of foot to be opposed in fight one against another; namely the fquare of horse, and the wedge of sor. Of which the terragonall horse-bartaile, square in figure, or ground (for all is one) is described in my notes vpon the 18. Chapter of Elian, as also the wider of horse, from which this wedge of foot (as Alian faith) is derived. It will be therefore needleffe to repeat, what is there written about the formes and diversity of them; or to make comparison of their vse and advantage. Against the Rhombe of horse, if they come to charge foot, he hath fer downerwo formes of foot to receive them; the Crefim and the hollow fromed battaile called Epicampios emprofibia: which vpon this reason, because they are hollow in front both, and the Rhombe thooteth forth and chargeth in a point, mult of necessity by receiuing that point into their hollownesse, and plying it with their weapons on all fides, diffresse the knombe both in front and flanke, which is a dangerous kinde or fight, and fuch a one as feldome may be tolerated or endured.

(2) Against the square horse butuale in figure or ground, he opposeth in this Chapter, the wedge of foot, which albeit it cannot with the like art wrappe in and encompasse the square, yet is it of force sufficient to breake and diffeuer it, and so to disorder and deface it. For the square of horse having a large front and going with full speed to charge, falleth vpon the narrow front of the wedge, which according to Alias ought to containe no more then three men, and they knitting themselves close, their pikes pretended and being feconded with the reft of their companions behinde pretending their pikes likewise, receive the charge with a firme stand, so that onely the middleft of the horse falling vpon the point of their front; cannot reach to the flanks of the wings thereof (because the wedge from the first narrowing groweth backward into an increasing breadth) without breaking of their forme, and altering of the front of their square, wherein they were ordered: which if they doe, their repulse cannot but follow, because they fight out of order. Now that the forme of the wedge in horse is able to endure the that of the horse, that came against them in a square, appeareth by the rs. Chapter of this booke, where it is faid that Philip King of Macedon. Alexanders father vied this forme alone, and that Alexan er himfelfe ordered his horse in the same manner, who were both vistorious in all their fields. That It is as good for foot against horse, besides the reasons before rehearsed may be euident by this, that the horse are in motion in the charge, and by that meanes are foone difordered, whereas the foot stand fast, and keepe themfelues secure to repulse the violence of the horse.

3. So [paminondas the Theban] This battaile is excellently described by *Temphon in his feuenth booke of his history of the Grecians. His words found thus: After Epaminondas had embatailed his army, as he thought fit, a Zeroph Halla. be led not freight way against the enemy directly, but delined meltoward romand the 172545-D. be led not freight way against the enemy directly, but declined westward toward the Legean mountaines lying right oner against the enemy, which bred an opinion, that be had no will so fight that day. For after he came up to the mountaine and had a

b ism rá örra

• ડેલ્સ્ટ્રેસ્ટિલ્સ કર્ય

The cas, with the point of the wedge against the the case.

Light-arm

Fhuins

ken a view of his army, he canfed them tob lay downe their armes in the vppermost part of all as if he meant to incampe, and by this meanes allayed the preparation of fight which most of the enemies had conceived in minde, and likewise their care in maintaining their place and order in battaile. After fleening wi to the front, his companies that marched in a wing, hee fashioned his whole army into a strong wedge. Then commanding them to take up their armies, he led on, and they followed. The enemy (seing him advance contrary to their expectation, nad no leifure to be fill, but Some ranne to their place in battaile, some embattailed them selucs, some bridled their borf fome put on their curaces all were like to men, that were like rather receive then give a foyle to the enemy. Epaminondas led on his army like a gallie with the a prome against the enemy imagining that where some he should breake their array he should thereby overthrow their whole army. For he resolved to bring the best and strongest part of his army to fight, casting the weakest behinde in the reare, knowing that being defeated they would discourage their owne side, and breed new courage in the enemy. The enemy ranged his horse like a phalange of armed foot in a great depth without toyning foot with them. But Epaminondas made a strong wedge of his horse alfo allotting them foot which had no herfes, conceiling that cutting afunder the enemies horse, he should easily overthrow their whole army. For you shall hardly find any. that will make good their ground, after they fe them of their owne fide take them-Clucs to their feet. And to the end, to with hold the Athenians from Succouring those of the left wing next unto them, he placed both horse and frot right over against them voon the hils, to put them in feare of charging their reare, if they gave and vinto the enemy, fo led he on to the charge, and was not de eined of his hopes. For having the better whereforuer he gaue on, he put the whole army of his a uerfaries to flight. So Xenophon . Where you may note not onely a fquare of horse defeated by a wedge of horse, but also a square bartaile of foot descated by a wedge of foot, And to shew more plainely, that the forme of the medge is forcible against a broad fronted Phalange, I will recite two examples more. The hift is out of T. Liuius, who writeth of a battaile fought betwixt the Romans and Celtiberians thus. The Celtiberians knowing that the Roman army having spoyled their "untrey, would retire through a forrest called Manlius his forrest, hid themof purpose, to the end to fall upon the Romans upon advantage and unlocka . When the Roman army had entred the forrest by day-light, the enemy rifine out his ambush woon the suiden inuaded them on both flacks. Which Placeus (hee was the Roman Generall) feeing, stilled the tumuliby the Captaines commanding enery man to his place, and armies, and bringing the baggage and carriage beafts together , he constantly and without feare embatiailed his army partly by himselfe, partly by his Legates and by the Tribunes of the fouldiers, as the time and place required; The every came on, and the skirmish was attached in the ottermost parts of the Roman Phalange, and at last the battailes toyned. The fi ht was het in all parts, but fortune divers : for the Legeons behaved themfelues bravely, and the auxiliarie: in both wings as well. The mercinaries were hardly laid unto by the enemy (who bore the like armes, and was a better kind of (ouldier) & had much ado to make good their ground. The Celtiberians, when they law they could not match the legions in the ordinary manner of fight, and Enfigne against Ensigne, cast them selves into a wedge, and so assay led the Romans : in which kind of fight they are a powerfull, that they are fearcely to berefifted. Then the le ions also branced, and the battell was almost broken. Which danger when Flaccus perceived, he rode to the legionary hor emen And is there no helpe in you said he? This army will immediately be loft. When they cryed out at all

hands, they would gladly doe what societ he commanded. Double the troopes, said he. of both legions, and with all your might force your horse against this wedge of the & nemy, wherewith they presse vs : you ball doest more violently, if you give on, drawing off the borfes bridles, which the Roman horsemen baue often done heretofore to their great comendation. They obeyed, and pulling off their horfes bridles they puffed & repafled through the enemies wedge twice with great flaughter, everyone breaking his faffe. The Celliberians after the breaking and dispersing of their wedge, in which all their hope remained, began to be afraid, and almost quitting the fight, sought where they might best to saue themselves. Hitherto Livy. In which pailage a man may obferue the violence of the wedge, which if it be rightly managed, is of wonderfull power to breake and dispart any square it shall fall vpon. The other example or precedent, is out of a Agathas, where he describeth the battaile betwixt Narses (the Emperour Justinians Lieutenant, and Bucelinus Gene- Againin 12.11, rall of the French-men. He hath thus. Narfes when he came to the place where 39. the fight should be, ordered presently his army into a Phalange. The horse were ranged in the wings; Himfelfe stood in the right wing, and next him Zandalas Captaine of his followers, and with him all his mercinary and houshold scruants; that were not unfit for the warre, von either fide of him was Valerian and Artabanus, who were commanded to hide themselves a while in the thicke of the wood, that was thereby: and when the enemy isyned, to fall out suddenly and unlooked for upon them, and to put them into an amazement. The foot had all the space in the middest, and the fileleaders toyned shoulder to shoulder being armed with curaces and other pieces of armour reaching downe to the foot, and with caskes: Behind them were other fouldiers ordered euen as farre as to the open fields. The light armed and fuch as vied flying weapons were cast in the reare expecting a signall of employment. The middest was reserved for the Heruly, and remained empty, because they were not yet come up . Bucelinus advanced his battell, and all ran cheerefully against the Komans, not leifurely, and in good order, but rashly and sumultuously, as if with the very cry they would have rent afunder all that flood against them. The forme of their battaile was like a wedge; For at resembleth the letter Deita. And the front which shot out in a point, was concred capus percinal, and clof , by reason it was hemmed in with Targets (you would have faid they comn_ aveget 3.4.19. terfeited a' (wines head) but both the flanks on each fide lying out by files in depth. and stretching backward byaswise, by little and little were parted and sewered on from another, and bearing out fill toward thereare ended at last in a great distan , fo that the ground in the mid left betwixt them was empty . and the backes of the fouldiers that were in the wedge, appeared cleane through the files uncouered. For their faces were turned contrariwise one from another, to the end, they might beare them toward the enemy, and faue themselves from blowes, by casting their Targets before them. and secure their backe by placing them opposite to the backes of their followes. All things fellout according to Naries his wish, to whom both a faire opportunity was presented, and who had wisely before contriued what was to be done. For when the Barbarians running on furiously fell upon the Romans with a shout and outers giving upon the milder; they presently broake the front of those that stood in the void space, (for the Heruli were not yet come up) and the leaders of the point of the wedge cutting afunder all that stood in their way, even to the vetermost depth of the file, and yet making no great slaughter, were carried beyond the bringers up of Narles battaile, and some of themeontinued their course further, thinking to take in the Roman Campe, Then Narges presently turning about and extending out his wings, and making (as the Tactickes name is) an Epicampios emprosthia, commanded the archers on

ng or Same-

rth much exceeding when armed foot are ingers being thrown of bartaile is fet the I that with the vneipe with them; and the same. And the file-leaders of the fight fecret, they deaders feuer them. likewife be ready to

be opposed against are ; the fecond the Fhath beene Ged by the enemics everil fides. It is called d more particularly le hath the likeneffe acrimologica thin, as I have noted we in whate Plutarch faith, that by he invited. om the Indies quaf- lexandri. hollow forme, and patter the Rhodian eplacinvita Des f the Plesium. But in metrif.

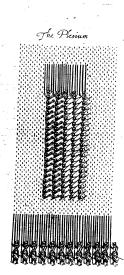
length of a battaile, a the point of one from the front to ming lose length or breadth wweer. y fo; for oftentimes Xenoph Heexpla: wife that the Ple-310.A.

fium

bor lebacke to lend their arrowes by turnes, upon the backes of the enemy, which they easily performed. For being on hor ebacke higher then the Barbarian foot, they might at their pleasure strike them, as they duanced forward, being in a great bredth, and nothing to shadow them. Hitherto Agathias. It would be long to rehearse the rest of the battaile which he exaggerateth rhetorically. I have recited so much, as both theweth the strength of the wedge, and withall the manner which was vied by Narfes, to ouerthrow it. For I find three kinde of waves which have beene practifed to refift and defeat it. One by charging ir with horse, before it enter the adverse battaile, as Flaccus did against the Celtiberians. The second to frame the adverse battaile empty in the middest (filling it with some souldiers notwithstanding for shew) and when hee entreth the space, to plychis reare with shot, and charge it throughly as Warfes did. The third to oppose against it a hollow wedge (which Vegetius calleth forfex) and receiving and letting in the point of this wedge into the hollownesse of the other to claspe it in, and charge it on all sides. Azainst the wedge faith Vegetius, is opposed the battaile called forfex, a paire of sheeres : For it is framed of the best and valiantest souldiers to the similitude of the letter V. and it recciueth in, and embraceth the wedge, so that it cannot breake through it.

4 It is fashioned when the Diphalange Antistomus. This manner of framing a wedge is described by Elian in the 36 Chapter : and yet that wedge ser downe there openeth in front, keeping the reare shut, and is opposed against the right induction, and called Calemboios; here the wedge is described that openeth the reare, keeping the front close, and is opposed against the square. But the manner of framing both standerh vpon one reaion: For the file-leaders being placed within the Cælembolos, the front of the battaile is opened and the reare kept close: in the other, the file-leadersbeing without, the reare is opened, the front still maintained shut, Colem Embe- Now the file-leaders place is varied in either of them, because of the seuerall effects which they worke. The hollow tronted wedge Cælembolos feeketh sold the enemy together, & fo defeat him. The other to difpart and rour and fo to gaine the victory. And because the stresse of the Calembors is within (for the flankes of the hollownesse claspe in the enemy, and fight against his flanks) therefore are the file leaders the formost that fight within 5 as likewise because the outsides of the wedge of this Chapter beare all the weight of the fight, therefore in it are the file-leaders without. For as in all other battailes the file-leaders ought first to attach the enemy. fo is it likewise in these two formes. But where Elian saith, that this battell is made out of the Diphalange Antistomus, by ioyning thewings in front, and opening them behinde, I take the Text to be corrupted. For the Diphalange Antistomus hath the file-leaders within, to resist the horse that charge them, as the 40 Chapter teacheth this hath the file-leaders without to: breake the enemies battaile and diffeuer it. The Cælembolos indeed is framedour of the Diphalange Antistomus: But the wedge of this Chapter fpringeth out of the Phalange Antistomus, which hath the file-leaders without. And fo I am of opinion, it ought to be read in the Text. And yet there is no question but another way of figuring the wedge may be practifed, then to leave it hollow behind. In this Chapter it is called Embolos, and Elian faith it is borrowed of the horse-wedge: Now that the horse-wedge is so-

Front Front.



the Art of Embattailing Armies.

lid, and not hollow within, is plaine by the 19 and 20 Chapters of this booke. I will conclude this Chapter with the caution of Vegetius, which is this, that if you shill make a paire of rongs or a hallow wedge, you ought to haue referues in readinesse behinde the battaile, wherewith you may frame your tongs or wedge. And yet this caution holdeth nor alwayes; For as a horie-wedge, fo a foot-wedge may be framed without supernumeraries: as the 19 and 20 Chapters shew.

> Of the foot-battaile called Plefium, and of the Winding or Samefronted battaile to encounter it.

CHAP. XLIX.

HE battaile Plesium hath the(2)length much exceeding the depth. And it is called Plefium when armed foot are placed on all fides, the archers and flingers being thrown into the middest. Against this kinde of battaile is set the

winding-fronted battaile, to the end that with the vnequall figure it may traine out those of the Plesium to cope with them; and by that meanes diffolue and diforder the thickneffe of the fame. And the file-leaders of the winding fronted battaile observe the file-leaders of the Plesium, that if they still maintaine their closenesse and sight secret, they also encounter them in the like forme. If the Plefium file-leaders seuer them. felues and fpring out from their maine force, then they likewife be ready to meet them man to man.

NOTES.

r THis Chapter containeth two foot-battailes, one to be opposed against the other; the first called the Plesium, or hollow-square; the second the winding fromed battaile or Peplegmene. Of which the first hath beene ded by all antiquity, especially by the Grecians, when soener the enemies wertopped in number, and they feared to be charged on all fides. It is called Plesium of the figure which is square 5 but originally and more particularly of the montd wherein bricks are cast. Because the battaile hath the likenesse . 21 molecular of the mould; as being both square, and also hollow within, as I have noted was in These before. Neither is this name given to a battaile alone; Plutarch faith, that brin invitage the chariot wherein Alexander rode, when he returned from the Indies quaf- lexandrifing and rioting, was framed is analy, that is, in a square hollow forme, and the Helepolis (an engin which Demetrius invented to batter the Rhodian Plus, invita De-City) was tetragonall, and had 48 cubits in enery fide of the Plesium. But in meni. a battaile, that is Plefium, faith Elian, which

2 Hath the length manifoldly exceeding the depth.] The length of a battaile, as I have shewed heretofore, is that which runneth from the point of one as I haue the wea herecorore, is that which the head from the front to wing to the other in front 5, the depth, that is measured from the front to writing like the reare. In the Plelium then, according to Elian, the length or breadth mount ought to be manifold to the depth. But it is not generally fo; for oftentimes Xcaop decrets. you shall read of Plesiums with dequal sides; and likewise that the Ple- 310.4.

fium is fometimes hollow within, fometimes folid and filled vp within with · Zenophal exp.L: men: of which last kinde " Xenophon faith, many of the Barbarians framed their troopes in the battaile betwixt Artaxerxes and Cyrus. Of the first & lian speaketh in this Chapter: for he would have the foure sides to consist of armed, and the archers and flingers to be throwne into the hollownesse within. He hath before in the 42 Chapter described the Plinthium to be a square battaile in figure and number; this he would have to be a square with the front manifoldly longer then the flanke. So that both battailes a. gree in that they are fquare, both in that they have armed on all fides, both in that they are hollow within; they differ onely in the forme of the fquare, which is longer in the Plefium, deeper in the Plinthium. Their affinity also appeareth in this also, that the Plinthium hath the name from a bricke, the Plesium from the mould of a bricke; yet are their names oftentimes confounded: For that which is called in one Author Plesium, is in another called Plinthium : as namely the battaile of Antony in Persia, is by Plutarch named Plesium by & Appian Plinthium.

* Thuced.L.z.

To shew now the vse of this battaile, it is of the kinde of Defensives; and the Grecians, whenfocuer they feared to be charged in flanke, front, and reare at once, or to be ouer-laid with number of chemies, had recourse vnto this forme. There is a notable example of it in h Thucydides. The Athenians having befreged Syracufe in Civill both by Sea and Land, and being over-come in two battailes by Sea, thought to march by land to some one of their confederate Ciof them half the ties in the Island; and searing to be round beset by the Syracusians in their way; Army vader their Nicias one of the Athenian Generals put his part of the army in a Plesium, and 6 marched before : Demosthenes the other Athenian Generall, followed with the other part of the army in the same forme. The armed tooke into the hollownesse of their battailes the cariage and vnu [efull multitude. When they came to the foord of the riuer Anapis, they found the Syracusians and their allies embattailed there, whom having beaten from the place, they passed over and continued their march. The Syracusian borse still charged, and the light-armed ceased not to ply them with missine weapons: but yet they came not to hand-blowes, fearing to hazard against men defperately bent to fell their lives decrely. At last wearying them with many dayes skirmish, and disordering their army, they forced them to yeeld. This History is at large fer downe by Thucydides. I have abridged it, left it should take up too much roome; and yet have expressed both the forme in his words, and further the meanes, that the enemy vied to breake it, and to get the victory. This forme was vsed by the Grecians at their returne out of Persia, after that Clearchus and the other Coronels were enfnared by Tissaphernes, and put to death: and againe by Xenophon, when he retreated, after he had failed of the taking of Asidates prisoner, not farre from I ergamus a City of Lydia. For the meanes to diffolue this battaile, the principall is, not to charge at hand those that stand so embattailed, but to ply them farre off with missive weapons; which is manifest by the fight of the Syracusians against Nicias and the Athenians; and by that of the Persians, who so assayled Xenophon in his retreat last mentioned. Alian setteth against it another forme of battaile which he tearmeth Peplegmene, the winding fronted battaile, which is by force called the fane : what kinde of battaile the fave is, I fee controverted. Some would have it confift of a conflant front indented, and not changeable or alterable in any part, during the charge. If that be the law, it cannot agree

1 Xeno; b.de exp. 43.303.E.

plegmene to traine folue the gainst the reftler, to end todener of emtht, as the efore, apcum assidue is faid to be cine on and mouing is but by file - Rom t 4 diel 7. out the file- P. 180. t of the Pelegmene or to fall out rest in the s will moue

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attailes, are of more effiof the other. ge to them,

that have advantage in numbers of men, and can frame a larger fronted Phalange then the enemy is able. And either of them opposeth a large front against the enemy, the one stretching it beyod the points of both their wings the other beyond the point one of their wings. The first kind is called HyThe adverse battaile

Cape 50

which he tearment represented the minimage point a battaile, which is by tone called the fine; what kinde of battaile the fine is, I fee controperted. Some would have it confile of a conflant front indental, and not changeable or alterable in any part, during the charge. If that be the faw, it cannot agree

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y. So that he that th purfforeth not. to ouerwing him. hered vp, and in

Evo kindes of battailes fet forth, which are (if I mithake not) of more efficacy, I am fure, fuch as haue beene more practifed, then any of the other, that goe before in this booke; and they specially gue aduantage to them, that have aduantage in numbers of men, and can frame a large fronted Phalange then the enemy is able. And either of them opposeth a large front againft the enemy, the one firetching it bey of the points of both their wings the other beyond the point one of their wings. The first kind is called HyThe adverte battail

which he tearment regardent, the winding fronted battaile, which is by long called the fane: what kinde of battaile the fane is, I fee controuerted. Some would have it confift of a constant front indented, and not changeable or alterable in any part, during the charge. If that be the law, it cannot agree

the Art of Embattailing Armies.

with Alians description, who would have the file leaders of the Peplegmene to aduance before their battaile, and be still in motion, of purpose to traine out the file-leaders of the Plefium to meet them, thereby to diffolue the out the nie-leaders of the Plenum of meet men, the property of the forme of their battaile. And this is but a stratagem to prevaile against the leaders the enemy. For, as Leo faith, a good Generallought, as a good wreftler, to make shew of one thing, and to put another in practice to the end to deceine the enemy, and gaine the victory; as is done in this manner of embattailing; but that the Sawe is no constant or setled forme of fight, as the rest are, which are described by Elian in the Chapters going before, appeareth by Fiestus, whose words are these : Serra preliari dicitur, cum assidue acciditur, recediturque, neque vllo consistitur tempore. The skirmish is said to be made in the forme of a Same, when they that we this forme continually give on and restire, and at no time fland field. But we must vnderstand that the moving is nor by mamples or by light-armed, as Lipfius interpreteth it, but by file. Rom Ladist 9. leaders of the armed, as Alian teacheth, (with intent to traine out the file-1, 1800) leaders of the Plesium, and so to disorder their battaile:) the rest of the Peplegmene standing still in their forme. Now then to make a Peplegmene or fawe-battaile, direction is to beginen to the file-leaders alone to fall out confusedly against the adverse Plesium of the enemy, and to the rest in the files to stand still. Otherwise being not forewarned, the whole files will moue and follow their leaders; which if they doe, this forme cannot be made, but the battaile remaineth as a square as it did before the going to charge. The forme of framing the battail called the Plefium, and the words of command are described in my notes vpon the 42 Chapter.

of Hyperphalangesis, and Hyperkerasis, and of Attenuation.

CHAP, L.

ASSY Yperphalangelis, or ouerfronting is, when both wings of the Phalange ouer-reach the enemies front.

2 Hyperkerafts, or ouerwinging, is when with one of our wings we ouer-reach the front of the enemy. So that he that ouer fronteth ouerfronteth ouerf For they that match not the enemy in multitude, may yet ouerwing him.

3 Attenuation is when the depth of the battaile is gathered vp, and in flead of 16 a smaller number is set.

MOTES.

IN this Chapter, being the last, that describeth formes of battailes, are two kindes of partailes fet forth, which are (if I mistake not) of more efficacy, I am fure, fuch as have beene more practifed, then any of the other. that goe before in this booke; and they specially give advantage to them, that have advantage in numbers of men, and can frame a larger fronted Phalange then the enemy is able. And either of them opposeth a large front against the enemy, the one stretching it beyod the points of both their wings the other beyond the point one of their wings. The first kind is called Hi-

а Хепорь Сугор.

1.7.173.

1.3.60.C.

64c.B.

Afr.385.

L Polyh.l. 11.

Lim.L. 28.204.E.

Hirtuis de bell.

paphalangesis over-fronting, the other Hyperkerasis, over-winging. Hyperphalangelis or ouer-fronting is, faith Elian;

I When both wings of the Phalange ouer-reach the enemies front.] To make it then Hyperphalangelis, the front must be much broader then the enemies. & extended beyond both their wings, of purpose to ouer-reach & wrap them in, charging not onely the front, but also the flankes on both sides at once : which is fo dangerous a kinde of fight, that he that is fo affayled, can have no great hope of making refistance against his enemy; because the front being the place which is ordained for fight, and the pikes being bent and lying out from thence, if at the same time the flankes be also charged, the fides of the fouldiers must needs lye open to wounds, no man being able to defend himselfe, and turne his weapons two wayes at once. The ouer-fronting of a Crassus vsed against Cyrus, rehearsed by me in my notes upon the 46 Chapter, is an eminent example of Hyperphalangelis, whereby Crafus at one instant inuaded the front and both flanks of the enemies battaile. The b Arr. 1234. E. b like maybe faid of the battaile of b Darius at Issos & Gaugamela, against 4lexander; and of Scipio against Afdruball Gifeoes sonne in Spaine; and of Lautenus against Casar in Africa. The manner of framing this sorme is divers: For either you shew all your forces at first, or else conceale some part; and shewing all, you march in an euen and whole front, and bowing afterward your wings, enclose the flankes of the enemy, or else in on embowed forme at first (such as are the hollow-fronted battailes) and so encompasse your enemy, taking him into the hollownesse, as you march forward. Of the first kind was the battaile of Labienus against Cafar which I mentioned last, and those of Darius against Alexander; Of marching in an embowed forme, that of Crafus against Cyrus: Of concealing your number, that of Cleandrids againti the Thurian cited by me in my notes upon the 29 Chapter of this booke; and of Scipio against Asdruball which is set downe at large in the notes

voon the 28 Chapter.

See Tied.Sic of Philip against the Ulyrians I. Pag-512.

a Thurdi. T. See in like ex h ft. rek.1.4. \$15.E.5 1 6. A.B.

2 Hyperkerosis is when we over-reach the enemies front with one of our winges. Ouerfronting is of both wings, ouerwinging but of one. So that albeit your number be smaller then the enemies, yet if you wrap in a part of his front, and one of his wings, you fo our wing him. To shew an example of our winging you may finde in Thucidides, that the Argines with their allies, being in the field against the Lacedemonians and their allies, the battailes were ordered thus: The Lacedemonians gave the point of the left wing to the Scirites, who only of the Lacedemonians have alwa es that place. Next to them they ordered the fouldiample in Xmoib ers that came with Brasidas out of Thrace : Next them the new make Citizens by com; anies by their fi es, first the Herwans, then the Menalians, Arcadians both, In the right wine were the Tegeans, and a few of the Lacedemorians in the point of that wing. The hor fe were ranged on both wings. Thus were the Lacedemonians embattailed: Their enemies thus; The Mantinaans had the right wing, because the warre was made in their Territory : by them flood the Arcadians their confederates. Then 1000 felected Argines, whom the City had long time trained up in military exercife ; to whom to ned the other Argines ; and after them were ordered the Cleoneans, and the Ornestians their allies. The last were the Athenians, that had the left wing, ard i cir owne horfe b them. This was the preparation and embattailing of both parties. When they went to charge, the Argines and their allies marched forward with feed and great fury, the Lacedemonians legfurely according to the found of the fifes, placed within their battaile, not for any religion sake, but to the end, that framing their motion to the found of the instrument, they might not in the march breake their order of embattailing, which great armies often doe in advancing, to ione with the enemy. When they were ready to ioyne, King Agis bethought himfelfe of this stratagem : It is the manner of all armies in the onfet to firetch out their right wings, and with them to circumuent and encompasse the left wings of their adversaries; because every fouldier carefull of his owne fefery feeke: 10 couer his vnarmed fide with the target of him that ftandeth next to his right hand, and imagineth that the fetting of targets close, serves for the best defence against the enemy. The cause is this; the corner file-leader of the right wing desiring to withdraw as much as hee can his naked side from the weapons of the enemy proceedeth to the right hand, and the rest follow him. And at that time the Mantineans a great deale ouer-reached the Scirites with their wing. The Lacedemonians and Tegeats much more the Athenians, by reason they ouermatched them in number. Agis therefore fearing the encompassing of his left wing, seeing that the front of the Mantineans was very broad, and farre extended. gaue a signe to the Scirites and Brasideans to stretch out their wing, and to equall the front of the Mantineans. And for the void space that should remaine upon their adnancing; he commanded two Polemarchs or Coronels, Hipponoidas and Aristocles to lead therin two cohorts from the right wing, and fill up the void space, conceining that he should this notwithstanding, leave himselfe fireneth enough in the right wing, and that the wing opposed against the Mantineans Sould hereby be bester enabled to the encounter But it happened that Hipponoidas & At ittocies followed not these directions, whether the reason were in the sudden resse of the command, or in the preuention of the enemies giving on . for which fault they were afterward banished Sparta, as men effeminate & cowards when they came to hands, the right wing of the Mantineans put the Scirites and Brasideans to flight. And they and their allies, and the 1000 felected Argines falling into the empty (pace, that was not filled up, made a great flaughter of the Lacedemonians, and encompafing them forced them to turne their backes in half and flye to their weggon, and flue also some of the elder fort of fouldiers , that were left for guard there . ritherto Thucydides. I prosecute not the remanent of the battaile, because it is somewhat long. That which I have recited is erough for my purpole, namely to thew the manner of ouerwinging. Thus then apply it. The Mantineans had their right wing farre extended beyond the point of the left wing of the scirites and Brasidaans, who by marching out to the left hand fought to equall the front of their aduerfaries, but left the ground voyd, wherein they were first placed. This ground by Agis his commandement should have been filled by the Cohorts of Hipponoidas and Aristocles. It was not filled, so that in the charge the enemy had the advantage to enter it, and to circumuent on that fide the Scirites and Brasideans, and put them to flight : which danger will be common to all that shall be so ouerwinged by their enemie. The danger then of ouer-fronting and ouer-winging being fo great, let vs fee what remedies and preventions against either of them have beene devised by antiquity.

Against over-fronting, they fought to secure the flanks of their battailes, Remedies gainst fometimes by ordering their army in such a figure, as should be sufficient to ouer-fronting. fustaine the charge of the enemy, wherefocuer he gaue on. Of which kinde is the Plefium or hollow- quare spoken of in the last Chapter, This was practi- The Plefium. fed by the Grecians at their returne out of Persia; and oftentimes by other Grecians, as is every where to be found in their histories. And Alex-

Epicampios pud.Su.l.17.592

ander when he was to fight with Darius at Gaugamela (the countrey being Champaigne, and Darius abounding in multitudes) defended himfelfe with an Epicampios opisthia, or a reare-hollow bartaile. I have shewed the manner of it before in my notes upon the 46 Chapter. And fometimes againe by forefeeing the danger and placing referues in the reare, or fomeother fecret place to charge the enemy in their flanke, while they bufie themfelues against your flankes. This b was practifed by Cyrus the elder against Crass, as I have shewed in my notes upon the 46 Chapter. Of this kinde *Folyes 1.1646 also it is, when you lay an ambush to charge their reare, while they charge your flankes. The place will likewise helpe much to avoid encompassing, For if the battaile be fought in a streight place by nature, where the enemy cannot draw out his Phalange in length, there is no danger of encompacfing. So Alexander at Iffos in Cilicia was freed from encompaffing, the place

being too narrow for Darine to bring all his forces into an equal front. The place may also be helped by art in case it be otherwise to open, and fit for the enemy, that aboundeth in number to encompasse vs on every side. So d Cafar being to fight against multitudes of Gaules, drew a deepe trench on gall 1.2.36.60 1.3. both the flanks of his army to affure it from the charge of the enemy. The 323. Blue in Syllage like did Sylla against Archelaus the Generall of Mithridats in the battaile Appian in bell. Cheronea, and both of them fo fecuring their armies from circumvention, became by that meanes mafters of the field and conquerours of their ene-Turkinhiftory mies. Of later time 10. Huniades the Hungarian King being to fight against a huge army of the Turkes, gained a noble victory against them by placing his army on the one fide against a fenne, and enclosing it on the other

297.5.1.

fide with his waggons. And these preventions have beene deuised against Remedies againg Hyperphalangelis, or ouer-fronting. Against ouer-winning, they thought it fufficient to strenthen and make fafe the wing, that was like to be endangered by the enemy; fo that all remedies against overfronting are good also against ouerwinging : but the remedies against overwinging are not sufficient to frustrat overfronting. Overwinging therefore hath beene avoided sometimes by drawing out the endangered wing in length to equall the enemies wing.

h Polyen, la in Cleandrida. C.4. Ze0 0.7.5 69. . 1 80 E.14-5 108

Elimera 9.505 that opposeth against it. This is done by doubling of rankes as Elian teacheth in the 29 Chapter, and as it was practifed by h Cleandridge the La. cedemonian against the Thurians. Wherein notwithstanding this caution is to be held, that you double not your rankes fo, that you make the depth of your body to thin; for in fo doing your body will be as subject to brea. king for want of depth as for want of length to ouerwing. Befide, it is done by facing to the hand, where the enemies battaile ouerwingeth, and marching out against it paralelly, till your wing equall the wing of the enemy: but so notwithstanding that the void space, from whence you drew your wing, be filled vp for feare the enemy give in to it, and diffresse you there, as may be seene by the president which in this Chapter I gaue out of Thucidides of overwinging, and the example of the Colchans, who fearing to be ouerfronted by the Grecians vpon a hill, vpon which they stood embattailed, led their wings to the right and left hand to match the front of the * x noph d'exp 1.4 Grecians, leaving the middest of their battaile empty, into which the Grecians conveying themselves easily put the Colchans to flight, as & Xenophon recordeth. 1 Ouerwinging is also prevented, if you hold referues secretly in the reare of your battaile to flye out voon the fudden against those for-

241.F. Leoc.12.5.34.

ces of the enemy, that feeke to our wing you. This remedy was vied by * Cafar in the battaile of Pharfaly, when Pompey having abundance of horse-cafar de bell, cmen, fought to circumuent that wing of Ce ars battaile, which lay to the o- wir 322. pen field, and was not guarded with a fence, as the other wing was. For to preuent the charge of these horse, Casar bestowed certain cohorts, who were to hold themselves close in the reare of his legions; not facing as his legions did against the legions of Pompey, but facing into the field, from whence he fuspected the enemies horse would charge; so that when the horse charged. these cohorts suddenly falling out vpon them, and putting them to flight. were the beginning of Cafars victory. The place also often giveth affurance against ouerwinging, whether it be a river or the sea, or a mountaine, or such like, to which you may apply the fianke of your wing. For a river, you have the example of Clearchus in the baitaile betwixt Artanexxes and Cyrus the yonger, in which b Clearchus ordered his troupes of Grecians on the right b Kenph desswing close to the river Euphrates. And when cyrus would have had him ped-61-263. charge the middeft of the Persian Phalange, because the King had placed himselfe there : (yer saith Xenophon) Clearchus seing the King was farre without the left wing of the Grecians (for the King fo much exceeded in multitude. that the middest of his battatle was a great way without the left wing of Cyrus) would not withdraw his right wing from the river, fearing to be encompassed on both

sides.

The like was done by Alexander the Great in the Countrey of the Getes: this is the effect of the words of Arrian; " when they (the Getes) fan Alexan- Arriage. det industriously advance his Phalange by the rivers side, lest the foot might happily be circumuented and encompassed by some ambush of the Getes, and his borse in the front, the Getes for Cooke alfo their City, which was not very well walled, fetting many of their children and wines woon their horses backes, as the horses could carry, and retired into the wildernesse a great way from the riner. By the Sea you may avoide likewife ouer-winging, if you order one of the flanks of your Army close to the Sea fide. This was put in vie by Alexander when he fought the battaile against Darius at Istos in Citic i. Thus hath Arrian; The foot of the left wing were commanded by Craterus, but the whole lest wing by Parmenio, who was enionned not to for fake the Sea, for feare of encompassing by the Earbarians : for by realon of their number they might easily encircle the Macedonians on all parts. A Mountaine also that is sleepe, will give good security to the flanke of a battaile, Diod Sie Linase that may otherwise be encompassed. At the battaile of Platea which was fought betwixt the Grecians and Mardonius, Xerxes his Generall; the Grecian Army confifting of 100000 the Persian of 500 thousand, the Grecians at the first encamped at the foot of the Mountaine Cytheron; but finding the place fitter for the multitude of the Persians, then for themselves, they removed their Campe, and chose a more commodious piece of ground to pursue the totall victory. For there was on the right hand a high hill, on the left, ran the river Asopus. The Campe was pitched in the middle space, which was fortified by the nature and safenesse of the plot of ground. Therefore the streightnesse of the place much fanoured the wife counsell of the Grecians, toward the obtaining of victory. For there was no roome for the Persians to extend their Phalange in any great propertion of length; so that many Myriades of the Barbarians came to be of no ve. The Grecians therefore Miliasis 10000. in confidence of the place, advanced their forces to fight, and ordering them selves according to the present occasion, led against the enemy. Mardonius being compelled to

make a deepe Phalange, ordered his battaile in such fort, as he thought most convenient, and with cries fet forward against the Grecians. This example albeit it be a remedy against Hyperphalangesis, or ouer-fronting, yet because it giueth a safegard by a mountaine to one of the wings, I take it to be proper enough to Hyperkerasis or ouer-winging. Besides that, as I before noted, all meanes that are vsed to avoid over-fronting, are good likewise for the avoiding of oner-winging.

3 Attenuation is.] This is nothing else but doubling of ranks: whereof fee the 29 Chapter.

Of conveighing the carriage of the Army.

CHAP. XLV.

HE leading of the carriage, if any thing elfe, is of great (1) importance, and (2) requireth a speciall Commander.

It may be conveighed in 5 manners, (3) either before the army, or (4) behinde, or on the (5) one flanke, or the other, or in the (6) middeft.

Before, when you feare to be charged behinde: behinde, when you lead toward your enemy : when you feare to be charged in flanke, on the contrary fide. In the middeft when a hollow battaile is needfull.

NOTES.

* Lee.4.10.6 1,

I s of great importance.] The importange of disposing the carriage in a march is well set downe by * Leo : You (saith hee to his Generall) ought to have a speciall care of your baggage, and not to leave it at randon, but to secure it in the place where it shall be; nor to lead it unaduisedly into the battaile: For it oftentimes falleth out that fernants fit for the Souldiers vie, and the fouldiers children and kinfmen are among ft it : and if it remaine not in lafety, the mindes of the fouldiers are distracted with doubtfulnesse and care and feare of the poyle thereof: for every man of understanding endeuoureth to possesse that which is the enemies, without losse of his owne. This is the aduice of Leo. A pregnant example hereof may be read in Diodorus Siculus his description of the last battaile betwixt Antigonus and Eumenes . In which Antigonus having foyled Eumenes horfe, fent his Median horse-men, and a sufficient number of Tarentines to insade the enemies baggage; For he hoped (which was true) not to be descried by reason of the dust, and by possessing the bacgage to become vanquisher of the enemy without tranaile. They that were sent riding about the wing of their adversaries unperceived, fell upon the baggage, which was distant from the battaile about five furlongs. And finding by it a rabble of folke unfit for fight, and but a few left for gard thereof, putting them to flight quickly (that withstood) they made them selues masters of all the rest. Eumenes hearing that his bargage was left, endeuoured notwithstanding to renew the fight, in hope by gaining the victory, not onely to preferue his owne baggage, but also to possesse that of the enemy. But the Macedonians refused to firike stroake, alleadging that their carriage was lest, and their children and wives, and many other bodies necessary were in the

hands of the enemy. And fending privily Embassadours to Antigonus they seifed upon Eumenes, and delivered him up into Antigonus possession. Thus much for the importance of affuring the carriage.

2 Requireth a speciall Commander. That the baggage ought to have a speciall Commander b Leo alfo affirmeth : Pegetim addeth a gard to the bag blue to 5 in gage, and Leo a proper Enfigne, faying; To energy regiment there ought to be Leo 4.53, allosted a Waggon Master, and a proper Enfigne as well to the horfe as oxen, that they 54.0-24.515. may be discerned to their owners by the colours of the Ensigne.

3 Either before the Army.] The first of the flue wayes, by which the baggage is conneighed in a march, is to lead it before the Army; which manner is to be put in practife, when the enemy pursueth in the reare: For if when the enemy followeth, the baggage should be behinde, he would soone haue meanes to feife vpon and rifle it, then you could haue to wheele about your army to succour it. For these fine manners of conneighing the carriage, Les agreeth with Elian in these words: Tour carriage, faith he, ought . Les 419. to have a speciall Commander to order and governe it : and he is to lead it either before the Army, if you dismarch out of the enemies Countrey; after the Army, if you inuade the enemies territory; on the one side or other, when you feare to be charged on the one or either of your flanks; within the phalange, when you have suspition to be charged on all parts. So Leo agreeing with Elian.

4 Orbehinde.] The baggage is to be alwayes disposed of fo, that the army may be betwirt it and the enemy. It ought to be before when the enemy is like to give on behinde; behinde, when he feeketh to affront you from before. And yet it fometimes falleth out, that all the baggage is not the passes. to be led behinde the whole army, according to this precept of Leo. Caufe 13.5137. enery drung or regiment (faith he to his Generall) to accustome their owne baz. When the news gage to follow after their regiment with their owne Ensignes, and not to mingle with is noticated other. For it is necessary, when the enemy is neither present nor expected in our owne Countrey, so march either by Regiments or else by Formes; and nos to gather your whole Army into one place, left they be eafily starued with hunger, or the number be quickly discoursed by the enemies especials, or be seuered in forrage. In another place speaking of marching thorow woddy and rough wayes, he shath thus: In these, see. case you have horse or baggage, lead your baggage behind: your Army, and after it the borse, and after them a few light armed targatiers, to be as it were bringers up of the march, for feare of unexpected incursions which oftentimes chance to be made by she enemy. In another thus: When you enter your enemies Countrey, you Shall Learns 60. cause your carriage to march in the reare; but when the enemy draweth neere, you That bestow is in the middeft of the Army. And in any cafe you must have your car- 1200 200 st. riage, and the Captines (if you have any) seperated from the souldiers that are to fight, lest if the enemy fall on roundly, they be hindered that are to fight. For the distance that the carriage ought to hold behinde the Army, the same Leo hath thus; If you thinke it convenient for the carriage to follow the Army, you are to order it a full bowe-shot from the Army, and let enery part follow their owne bodies in good array : giving it such breadth in the march, as the army possesses; lest that lying out beyond the breadth of the Army, they become unsuccourable. These are the precepts of Leo concerning the conveighance of the carriage in the reare. For the practife of it you have a precedent of Cyrus the elder, which worst Greek is at large rehearfed by me in my notes vpon the 7 Chapter of this Booke: Liss.A.B. and another of Alexander the Great, when hee led against the Persians at Andread.

the river Granicus, and an infinite number of other examples are to be found in History enery where.

Vide Leone. c. 14.

5 Or on the one flanke, or the other. | Elians precept for disposing of the baggage on the flanks, is very good: For it ought as much as is pollible, to be preferued from the touch of the enemy; neither can there be any better way to fecure it, then your opposition, the Army betwixt it and the enemy; but fo, notwithstanding that it have a gard about it at all times to save it from the fudden inuation of your enemies horfe. If therefore the enemy appeare on your left flank, your baggage is to be conucied on the right flank. If contrariwise the enemy come on to charge your right flanke, the baggage is to be removed to the left. And this holdeth, onely when the enemy appeareth vpon one flanke, and not on both. But in case the enemy appeare

on both flanks at once, then is the fafest place for it,

(6) In the middeft.] There are two manners of leading of the baggage in the middest, and that according to the nature and condition of the ground, where our army marcheth. If therefore the way be straight, Leo giueth this precept; Those that leads their army through streights, having with it either baggage or prey, ought to divide it into a diphalange, and to march wing-wife in a right induction. A right induction, that is, which is narrow in front, and hath the depth stretched out in length : And this is to be done especially when there is a prey in the hands of the army And if they confife of foot, the passage will be the easier through rough and cumber some places. If horse, the; are to alight and take the baggage and carriage into the middelf. But in such times and places, you are to appoint some chosen men onely for the defence of the prey, and to order them woon the foure sides of the Diphalange, as the place will give leave, to the end to follow it and repulfe those of the enemy that offer to charge or distract it. And the battaile (or diphalange) fo ordered for the preservation of the carriage or prey, be maintained a hele and entire. For it is not to slible for those of the Diphalangy both to defena the prey in good order, and to joyne with the enemy that chargeth, which is the cause that there ought to be extraordinary men to march without the foure sides of the army; but efficially you are to appoint the best of them to wait upon the reare: For so may at all times rough and troublesome places to passed through with fafety. This is Leocs precept for freight & narrow paffages: because in such you cannot forme your army into a hollow square, wherein the baggage is to be couched, and to be defended on all fides. For if the ground be open enough to cast your selfe into a square, hee holdeth the forme the fafest to give security to your baggage. These be his words: Place all four carriage, servants, and baggage, and provision, in the middest of your army. And in another place, speaking of a retreat to be made after an ouerthrow received, he writeth thus : You shall order your whole power into two Phalanges or battailes, or into one square Plinthium; in the middest whereof you shall put the carriage beafts, and baggage, and without them the fouldiers in order, and without them the archers, and fo retire and depart in fafety. Againe he faith, In marches, the enemy approaching, it is necessary to have your carriage in the middest, left being unquarded, it be spoyled and rifled. With Leo doth Xenophon agree. His words have this shew: I will not wonder, if as fearfull dogges are wont to follow and bite such as passe by, if they can, and to flye from such as follow them, so the enemy hang upon our reare. Therefore we shall perhaps march the lafer, if making a Plesium of the armed, the carriage and unprofitable multitude be throwne into the mid-

dest for more security. And if it be now determined who shall command the front of

Leoc.9.5.36.

Lee.c 14.5.24.

Aft of all, we will briefly repeate the words of direction; if we admonish first that they ought to be short, then that they ought to be without double fignification. For the Souldiers, that in haste receive direction, had neede to take heede of doubtfull words, left one doe one thing, and another the contrary. As for the purpole; If I say turne your face,

fome, it may be, that heare me, will turne to the right, some to the left hand, and so no small confusion follow. Seeing therefore these words Turne your face importa generall fignification, and comprehend turning to the right or left hand; we ought in stead of saying turne your face to the pike, to pronounce it thus, To your pike surne your face; that is, we ought to fet the partisular before, and then inferre the generall; for fo will all doe alike together-

when the enemy approacheth, but execute that which is resolved upon. This is Kene. phons counsell for the march in open ground, when the enemy abounderh in number of fouldiers: which counfell was often put in practice, and the Grecians being but 10000 fecured themselves against infinite multitudes of Persian horse that charged them on all sides, and also preserved, and led their carriage fafe in dispite of the enemy. The like was practifed by Xcoophon afterward in the last warlike action of the Grecians in their returne out of Persia. He setteth downe the history after this manner; Now was it time, Xunt early. viz.after they had affaulted a fort in vaine, the enemy of the country (gatherine head) 3046. to thinke upon a faire retreat, and conveying the oxen and Sheep they had taken, and likewise the slaves into a Plesium; they quickly dismarched, not so much esteeming their prey, as fearing in case they lest it behind, their departure might seeme a plaine running away, and the enemy gather heart, the Grecian fouldiers be discouraged. So now they departed fighting as it were about the prey. The Souldiers with Xenophon being shrewdly annoyed with bowes & slings, cast themselves into a ring to the end to oppole their targets against the shor of the enemy, and with much adic passed the river Caicus, the one halfe of them being wounded. Agastas also the Stymphalian Captaine was hurt whilest hee maintained fight with the enemy, during the wholeretreat. Tet they all returned fafe to the Campe bringing with them about 200 flaves, and fleepe

enough for Sacrifice. Here Xenophons fouldiers figured themselves first into 2

Plenum couching their prey in the middeft; afterward being overlayed

with the enemies shot, they concerted their Plesium into a Ring, in which

forme they tecouered their Came, notwithfranding the moleftation and of-

ten charging of a great multitude of horse and soot, that were enemy and

followed them. Of the forme of Rings I finde not many examples amongst

followed them. Of the forme or kings a made not they found themselves the Grecians; the Romans vsed them often, when they found themselves encompassed by the enemy, as " Vegetius hath; and may bee seene in Cefars T.Lie. Commentaries. And let thus be faid of the foure manners of placing the course week

Of the words of Command, and certaine observations about them.

CHAP. LII.

Like reason is, if you say Turne about your face, or countermarch : for these are also generall words, and therefore wee should doe well to fet the particular before. As to the pike turne your face about, or to the target, turne your face about: Likewise the Lacedemonian Countermarch, not the countermarch Lacedemonian . For if you place the word countermarch first, some of the Souldiers will happily fall to one kinde, other to another kinde of countermarch. For which cause words of double sence are to be avoided, and the speciall to be set before the generall.

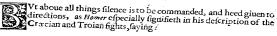
NOTES.

F we admonish first that they ought to be short.] The ordering and motions of an army ought to be quickly performed, the rather because the transmutations of the body and the occasions of them are sudden for the most part. And therefore the meanes to worke the transmutations commanded (these meanes are the words of direction) ought to fuite to the nature of the motions themselves, and to be applyed to celerity by shortnesse of speach. Short speach is better carried away, and sooner put in execution, then speech that is longer. Yet is not such a shortnesse to bee affected, as will bring with it obscurity, according to the faying of the Poet : Breuis elle labo-70 - Obscurus fio. I labour to be short, and so become obscure. And therefore I take the practice of French Commanders, when they command Facing in these words: A droie, a gruche, to the right, to the left, without adding face, and likewise of the Netherlanders in imitation of the French Reebes om. flinks om, and of some English in these words. To the right, to the left, not pronouncing the motion which is to be made to the hand appointed. These I fay. I take to be without the warrant of reason, and of all antiquity, from which Elian draweth this rule. For the command of right and left alone fheweth that the Commander would have a motion performed to the named hand, but leaueth vncertaine what the motion should be, so that albeit some souldiers fall to a countermarch, some other to wheeling, or to doubling, or to facing, they are to be reputed blamelesse, and to have performed that which their direction willed them to doe, because the command was of mouing to the right or left hand onely, not shewing what motion should be made to either hand. Shortnesse therefore is required by Ælian, but fuch a Shortneffe as is not wrapped up in obscurity, and which may fully deliver the minde of the Commander to the fouldiers, which hee hath in exercise. And as the words ought to bee short, so ought they to be,

Without double signification.] Where they have a double signification, that is, may be diverfly understood by them, who are under direction : some of the fouldiers (as Elian faith) will doe one thing, fome another, which must needs breed a confusion in the body exercised. For as uniformity of motion in every particular fouldier preferueth the whole body, and every joynt. or part; thereof entire, fo the dissimilitude of motion in the particulars induceth a diffiornting, as it were, & a diforder of the multitude of the whole batthile in generall. To avoid then the inconvenience of double vnderstanding in words . Alian thinketh fit, that the special word should be placed before the generall, and in stead of Pace to the pike, he would have the Comthe Art of Embattailing Armies.

mander to pronounce thus: To the pike face (that is to the right hand:) holding the word right hand to be more speciall or dreighter in signification, then the word Face. Let me haue pardon if I differ from Alian herein. For Logicians hold those words more generall, that stretch vnto, and comprehend under them mo a particulars. Now confidering there are foure motions of the battaile, which cannot be put in vie but by words of direction, and in the direction the wordright or left hand is of necessity to be applied to energy of them (as for example Countermarch to the right or left hand. Face to the right or defi hand, and so of the rest;) it is cuident, that the word right hand, or left hand is more generall then any one of the motions, because it itretcheth to them all. So that affect we retaine the rule of Elian, namely, to fet the speciall before the general!, yet may we very safely from his example, and not onely in facing, but also in the three other motions pronounce the direction thus: Face to the right or left hand, Double to the right or left hand, Countermarch to the right or left hand, Wheele to the right or left hand: because the word right or lest hand is more generall, then any one of the motions. But admit it were more particular, yet the necessity of our language would force vs to for lake this rule of Ælian. For in euery language there is an idiome or propriety of speech, and that not onely in the phrase it felf, but also in the very loyning & tying together of the words of the sentence. So that that which forteth well with one language, will not be receiued in another. In Greeke, in which tongue Elian wrote, it foundeth well to place the nowne gouerned by a verbe, before the verbe it felfe. So in Latine, Dutch, French, and other tongues. In English if a man should doe the like (vnlesse it were in verse, wherein the number of the seet is more respected then the ordering of the words) he thould be accounted ridiculous or vaine. For take the example here set downe, to the right kan face, to the right hand double, or countermach, or wheele, and let vs vie the same order of words in common speech, and a man fay to his servant : To the Church goe, to the mill corne carry, booses cleane make. To the cutler my rapier carry : Who would not laugh at his speech, or thinke him idle in so pronouncing. Wherefore albeit Alian hold that forme agreeable to the Greeke tongue, yet I cannot fee how it will be fit that our English, according to which I hold it better to pronounce after this manner: Face to right hand, Countermarch to the right hand, and so in the rest, then after this, To the right band face, to the right hand countermarch, the rather because the property of speech availeth much to the capacity of fouldiers, who for the most part are volearned, and will hardly understand, in case the wonted custome, and ordinary vse of ioyning words be inverted.

CHAP. LIII.



The skilfull Captaines pressed on, quiding with carefull eye
Their armed troopes, who followed their leaders silently;
Tou surely would have deem deach one of all that mighty throng
Had beene bereft of speech, so bridled he his heedfull tongue,
Fearing the dread Commanders checke and dreadfull heists among:
Thus march d the Greeks in silence, breathing slames of high desire
And servent Zeale to backe their friends, an joes to wreake their ire.

As for the disorder of the Barbarians he resembleth it to Birds, saying

A: sholes of fowle, Geese, Granes, and Swans with necks far stresched ont, Which in the stimy sens Caitters winding streames about. Sheere here and three the stiquid is the sporting on wanton wing, Then fall to grown a with clanging noyse, the sens all ouer ring. None otherwise the Troins still the field with heaped sounds of broken anaconsused eries, each where tumnist abounds.

And againe :

The Captaines marshall out their troopes ranged in goodly guise, And forth the Troians pace like birds, that lade the ayre with cryes. Not so the Creekes, whose silveness that sames of high desire, Feruent in zeale to backe their friends, on soc so wreake their ire.

NOTES.

CIlence when a battaile is put in order either for fight, or exercise, is one Of the principall points of obedience, which belengeth to a fouldier; the breach whereof more endangereth the proceeding of warre, then a rawe fouldier would thinke, who onely is wont to offend in that kind. I have before entreated of fignes, and shewed, that in the obseruing of directions confisteth the greatest helpe of victory; in neglecting them, the chiefest meanes to take an ouerthrow, and be defeated. For as directions being executed giue life vnto warlike actions to effect that which the Commander defireth, fo what soeuer hindereth the receiving of directions, must needs crosse the designes of the Commander, and by consequence frustrate and disanull that which was thought by him most fit to be put in practice either for the good order, or for the preservation of the Army, or else for the gayning of victory: A man that is not attentive cannot marke the command deliuered: Nor can he be attentiue, that whilest it is deliuered busieth his head with other thoughts, or elfe entertaineth his next standers by with talke, a meanes to divert aswell the speaker as the hearer from that heed which ought to be given to direction; in a frauch as no man hath the ability to heare another mans speech, and himselse take at the same instint, or at the same time to discerne two mens seuerall speeches, which are delivered together. All generals have held Silence a principall point of warlike difcipline. And therefore in Commands they make it the first. Leas precept is this : When the troopes are drawne together, and ordered for exercise, let the cryer (for every company had then a cryer) give these directions: Doe what wou are comeranded with silence ; keepe your places every man, follow your colours. And in another place he writeth thus: When your Army goeth out to some with the enemy, Leacus 63. there ought to be a deepe silence; For that both presents the Army from disorder, and also maketh the directions of the Commanders to be heard with more attention.

And againe thus: There ought to be as much slience as may be in the Army, and if Leacaptus 12 the bringers up of any file, hear but a whispring of their fellowes in the file, they are toprickethe parties with the points of their pikes, and so to rederste the falle, they are toprickethe parties with the points of their pikes, and so to rederste the fallet, artistic p. 6.0. Alexander when he was returning from the Countrey of the Taulantians, into which he had made an inrode, sound his way beset with enemies, and being to each his Army into a forme of battaile to sight, he sirst commanded an absolute silence, and then proceeded to ther directions. And for the effect of silence, our owne story hath a memorable example of the Army of Edward colors.

As for the filence here prescribed by Æsian, it extendeth not onely to exercise and fight, but oftentimes to the marching of an Army, and to the Campe, as appeareth by the last example, and by Loss precept in his election. And yet this precept of silence is not inviolably to be kept in an Army at all times: for there is a time, when the Souldiers ought to give a generall shout, and cry thorow the whole Army, to the end to terrise the adverse battaile of the enemy; and that time hath alwayes been chosen, and by all Nations observed, when the fight is presently to be vindergone. I neede not bring instances thereof; every man knoweth it, that is although but meanely acquainted with History. It is termed in Greeke proposed in Latine clamps. In English a shout of the whole Army; the which being performed, silence is to be restored in as strict manner as before. And thus muchof silence. Now followeth the words of direction in Æsians last Chapter.

of the words of direction.

CHAP. LIIII.

Hus then are we to command.

r To your armes.

Carriage away from the battaile.

3 Be filent and marke your directions.

4 Take vp your armes.

5 Seperate your felues.

6 Aduance your Pikes.

7 File your felues.

Ranke your felues.

Looke to your leaders.

10 Reare-Commander strengthen your file.

11 Keepe your first distances.

12 Face to the pike.

Moue a little further. Stand fo.

13 As you were.

14 Face to the Tar,

Leeces 7.5.65.

Nous

Moue a little further. Stand fo.

25 As you were.

16 Face about to the pike.

17 As you were.
18 Double your depth.

19 To your first posture.

20 The Lacedemonian Countermarch.

21 To your first posture.

22 The Macedonian Countermarch.

73 To your first posture.24 The Choræan Count

24 The Choræan Countermarch.

25 To your first posture.

The precepts of the art Tacticks have I delivered vnto you (most invincible Cofar) which I make no doubt, will bring to the practice satery, and victory ouer his enemies.

NOTES.

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Hese words of direction here set downe, are rather to shew the manner of Com mand, then to expresse the just number of directions vsed in exercise : yet doth Lee the Emperour transcribe some of them, albeit not all, out of Lian; and the last in Leo hath a mixture of two motions in one direction, being delivered in these words, TOT NAKATE STATE To Sievennelom; which is in Latine translated by Sir John Chek Laconicum ad hastam trivolue; and may be thus englished, wheele thrice the Lacedemonian Countermarch to the right hand; wherein there is both wheeling and the Lace emonian Countermarch commanded at once, a thing im effible to be performed. For as in wheeling, the whole battaile remaineth entire, and moueth circlewise about the right of lest corner fileleader, as about a Center; So in a Countermarch Lacedemonian it is broken, and beginneth to moue by feuerall ranks, and continuerh the motion in a direct line from the front to the reare, and not in a circle. But for the precepts of Elian I purposeto explaine onely such as are vsed by the Souldiers and Commanders of our time: And after taking of armes I hold this to be the first, at left when we begin to moue.

6 Aduance your Pikes.

Pikesinordering of a battaile must be first advanced before any motion can be performed, in as much as allother postures of the Pike doe hinder, or else are vnitt for transfmutations and variety of changes, and from advancing the rest of pike-postures doe spring. Ordering of the Pike was deuised to ease the Souldier standing still shouldering, to ease him in matching; advancing, to give facility to the other postures, and to finish them, because they both begin and end in it.

7 & 8. File andranke your selues.

It is needlesse to note, that no battaile can be without filing and ranking.

This we must understand, that the Captaine is to see whether the Souldiers be filed and ranked, but the action it selfe pertained to the Souldiers, who knowing their files and rankes, are euery man to take their place accordingly: for so ought it to be in true discipline of Warre.

9 Looke to your Leader.

The file leader is the life, and giver of forme vino the file. He is the life in that he mouth first, and draweth the rest vnto the same motion; he gives that he forme vnto it, because it being nothing else but a right line, his standing, being the first point, directed the rest to follow lineally one after mother. In this precept therefore Looke to your Leader two things are on nantel, one that the rest of the sile should obscrue to move and stand thid, as he doth; the other, that they should maintaine a straightnesse and rightnesse in length, which is the forme of the file.

10 Reare-commander order your file.

See Elian ca. 17.

In the Greeke Edition of Aclian is read seron, that is, file-leader. But in a Manuscript, which I have scene, is seron, the bringer vp or reare-commander, and so is it read in Less Tacticks; and I take it to be the true rea-Lumps, setting, this command rather appertaining to the reare-Commander, then to the file-leader: for the file-leader being the foremost of the file, and bearing his face out of the front, how can he see whether the file that is behinde him, be in right order or not. The bringer-vp hath his face toward the whole file, as it standers out before him: and therefore may easily discerne it any man be in disorder, and reforme them that are the cause of the disorder. In which respect it is euident, that he is fitter for the command, then the sie-leader; which is the cause, that I have translated the word of direction, as before, Keare-commander order your file.

II Kespeyour first distances. That is, stand in your open order. For in that distance is the exercise first legunne.

It is a feemely thing to see an euen proportion observed in the motion of see Eliacopic?

a battaile, and to behold a direct space betwixt files and rankes. For that is the grace and beauty (as I may terme it) of a Phalange ordered for fight. This proportion cannot be maintayned without observing distance curiously. Open order is sixe foot both in ranke and file betwixt man and man euery way. If then any souldier in file gather up to his leader, and stand at distance of three foot, it is manifest, that his ranke is thereby disturbed and made vneuen, although the file continue streight. Contrariwise, if he bearthinesses of our of his place, three foot toward either of his side-men, by this mear es he disordereth his file and maketh it crooked. This fault if it were committed by many, a generall disorder would follow in the body 1 and therefore Elian well admitted to keepe the first distances especially till you be commanded to the second or third distance, which will often fall out in the foure motions. Of which Facing is the first 3 and the words of Facing.

2 Face

the Art of Embattailing Armies.

See Elian before

That is, Face to the tight hand; For the pike was alwayes borne in the right hand.

14 Face to the Target.

12 Face to the Pike.

The Pike-men in the Macedonian army bore targets on their left armes, on the left fide, fo that facing to the target is all one with the word of command; Face to the left hand.

16 Face about to the pike or target.

That is, face about to the right or left hand. But where hee addeth [mone a linte further.] he fignifies that the direction is not triby accomplished, and he would have the fouldiers continue their motion till their faces were fully come about to the reare; and then hee wilketh them to fland [ii], because they have gayned their place. These facings here expressed by Alian, are of the whole body. Other facings of the parts he hath not set downe, which notwithstanding are oftentiones of great vse. For say the enemy charge in front and reare; your front must continue as it did, but the word for the reare is:

The mphiftomus Phalange. * Halfe files face about to the right or left hand.

If the enemy charge you on both flankes, then is the word of command.

b The Antifomus Phalange. b Halferankes face to the right, halft to the left hand.

If in front and one flanke, the front flandeth firme, and the word for the flanke that is charged, is:

The Plefium.

Halferankes of the right (or left) flanke, Face to the hand named.

If in front and both flankes, the front is to fland firme, and both the flanks to face to the enemy. And this is done in a hollow fquare or Plefium, and the word is:

Flankes face one to the right the other to the left hand.

If on all fides or round about, it is as before for the flankes: but for the reare,

Thereare face about to the right or left hand.

Now in Countermarch of the reare, the ranke of file leaders is oftentimes commanded to face about to the right or left hand; In countermarch of the front, the ranke of bringers vp must doe the like, as wee shall see in Countermarch. Doubling is the second motion yield in battaile, the precept of it in this in £lian.

Deubling.

18 Double

18 Double your depth.

The word in our exercife for this motion is, Double your files; because files measure the depth of the battaile, or rankes measure the length. This see, when the even files (that is, the z. 4.6.8. 10. file) fall into the odde; As if the doubling be to the right hand, the right hand corner-file standerh firme, and is the first after doubling; the third is the second file, the fifth the third, and so the rest of the odde files in order. But the manner is, that the leaders of the second file fall directly behind the leader of the first file, and the second man of the second file shind the second man of the first file, and for the rest of those two files. The same order is for the rest of the even files, when they double the odde files. And the word is:

Double your files to the right or left hand.

Another manner is, when halfe the body of files conveyes it felfe into the spaces of the other halfe of the body; be it to the right or left hand according to direction given; so that the first ranke of the halfe body, which is to move, fals into the space next after the first ranke of the halfe body that standers, and so the rest of the rankes of the halfe body that the word is:

Halfe the body double your files to the right or left hand.

Another is, when files are doubled by a countermarch: As if the fecond file of the right or left hand (as it is appointed) countermarch, and the leader of that file place himfelfe behind the bringer up of the corner file to that hand, to which the doubling is to be made; and fo the reft of the files of euen number, behinde those of odde number; as the second behind the fift, the fourth behind the third, the fixt behind the fifth, and so the reft. The word is:

Double your files by countermarch to the right or left hand.

The next word in Elian is

Double your length.

That is double your rankes, or front: (For as I before noted, the rankes make the length of the battaile) which likewife is many wayes done. The firft is, when the rankes of euen appellation, as the 2.4.6.8.&c. fall out into the spaces of the odde, namely, into the spaces of the 1.3.5.7.&c. which stand before them and place themselves even with them in ranke. The word is:

Double your rankes to the right or left hand.

Another way is, when the bringers-vp (their halfe files following them:

by countermarch) advance vp to the front, and place themselves in the spaces betwist the sile-leaders to the hand appointed, and the rest of the ranks accordingly, namely, the ninth ranke in the spaces of the second, the eight in the spaces of the third, the second in the spaces of the sile third, the second in the spaces of the sile should be second.

Bringers up double your front by countermarch to the right or left hand.

Another is, when the reare-halfe-files, one halfe face to the right, the other to the left hand, and dividing themselves, march out till they bee past the flankes of the standing halfe files: Then facing to the front, sleeve vp and front with the standing halfe-files. Then the word is:

Reare halfe-files double your front by division to the right and left band.

Another way is, when the reare-halfe-files vardinided, face to the hand appointed, and being beyond the flanke of the relt of the body, face to the front and fleeue vp, and loyne in front with the flanding halfe-files. The word is:

Reare halfe-files, enter double your front to the right or left hand.

It is to be observed, that in all these motions of doubling rankes or from, the souldiers are to return after their motion to their first posture; which is done by facing about to the right or left hand, and then by mouing, and by recovering their first place. The word is:

As you were.

Countermarch is the third motion vsed in the change of a battaile. The vse and necessity thereof appeareth in Alian before, and that there are two kindes, one by file, the other by ranke. The words of command that hee here fetteth downe, are onely of countermarch by file, which may be reduced to two kindes, wiz. the Countermarch of the front and the Countern arch of thereare. That of the frace onely one, and it is called the Macedonian Countermarch. Now Alian direction followeth.

20 The Lacedemonian Countermarch.

This is one of the Countermarches by file, and of the front. The manner is, that the file-leaders beginne the Countermarch and paffe beyond the reare, their files following them. In our exercise the word is:

Countermarch the front to the right or to the left hand-

It is done after another fort alfo, as when the bringers up face about to the right or left hand, and then the whole body facing about to the fame hand, patiethors with fpaces of the bringers up to the fame hand and the ninth ranke, beginning the reft of the ranks after one partners, where themselves every patieular man before his follower in the fame; file, till the file-leaders are first. The word is:

Bringers

the Art of Embattailing Armies.

Bringers up face to the right, or to the left hand. The rest beginning at the numbranke, passes theorem to the sum thand, and place every man himselfe before his follower.

As you were.

In Elian followeth:

22 The Macedonian Countermarch.

We in our exercise tearme this Countermarch of the reare, and it is done in two manners: First, when the bringers vp begin the Countermarch, and their files following, passe thorow the spaces of the file leaders, till the file-leaders become the last of the file, and then the whole body face about, and stand. The word is:

Countermarch the reare to the right or less hand. Face about to the con-

The other when the file-leaders face about to either hand, and the reft of the ranks beginning at the lecond ranke, fucceffiuely paffe thorow the spaces of the file leaders to the hand appointed, placing themselues enery man behind his next leader, and facing about as they did. The word is:

File leaders face alout, the rest of the rankes passe thorom, and place your selectors.

The next in Alian is:

24 The Chorean Countermarch.

This Countermarch is of the front, as I faid, but it keepeth the ground that the body had before the file-leaders (their files following them) remoued to the places of the bringers vp, and the bringers vp to the places that the file-leaders had. The word is:

File-leaders, countermarch to the right or left hand, and stand, viz. when they come to the bringers up.

Other Countermarches there are, which are not here fet downeby Et.

Ban, but are remembred in his Chapter of Countermarches; of which the
countermarch by ranks of the whole battaile is one, the other is the countermarch by ranks in the parts. And as in the Countermarch of the front
or reare, the rankes firlt began to moue; fo in Countermarch of the flanke,
the files entire beginne to moue; and as in the Countermarch of the flanke,
the ranks followed one another by file, fo in Countermarch of the
flankes, the hles follow one another by ranke: that is, the fouldiers of euery
ranke follow one another. If you would countermarch the right flanke, to
to change one fide of the battaile for the other, the word is:

Countermarch the right flanke to the left hand.

91

3 Metion-

To countermarch the wings into the middest, both the vttermost corner-fles are to moue toward the middest, their halfe rankes following them, and meeting in the middest to stand there, and face to the front; and theword is;

Countermarch your wings into the middest of the battaile.

Observe, that in Countermarch by ranke, the three Countermarches Macedonian, Lacedonian, and Choran may be practifed, as well as in Countermarch by file. If the flanke neerest to the enemy begin the Countermarch, this the Macedonian countermarch, because it maketh a shew of shifting away. If the flanke furthest from the enemy begin, it is the Lacedomonian, in that it carrieth a semblance of falling on. But when one flanke countermarcheth, till it come instruction of the other, and no surther; it is the Choran, because it keepeth the same ground.

The fourth Mo-

Wheeling is the fourth and last motion; and it is vsed in the whole entire battaile, or in the parts thereof. Alian giveth words of direction for the whole battaile onely, and they are these;

Wheele the body to the Pike, or to the Target.

When the battaile is to wheele to the pike or right hand, the right hand corner file-leader is onely to turne h's body by little and little to the right hand, facing euen with the ranke of file-leaders, till fuch time as hee haue gained the right hand afpect; and the reftare to moue about him, making him the centor, as it were, of their circled motion. If to the left hand, the left hand corner file-leader is to doe the like, The fame order is of wheeling the battaile about to the right or left 'hand. Ælim (as I faid) gjueth here no other words of command, then for the wheeling of the whole body, yet are the wheelings of the parts of great vie; for either the flankes are wheeled into the front, or the front into the flankes. The front is wheeled into the flankes, when we defire to forme the Antiflomus Phalange to refift the enemy, giuing on both flankes. And then the two middlemost bringers vp are to itand, and the middle file-leaders to divinde themselues, and to moue halfe the battaile to the right, hale to the left hand, making those two bringers vp the center of the motion. In this the word is:

Wheele the front into flanks by division.

If the flanks be to be wheeled into the front, the two middle file-leaders are to fland ftill, and the two halfe bodies to moue about them, one to the right hand, the other to the left, till the two flanks be in the front, and the front in the middleft. This kind is practifed when we would frame the Diphalange Antiflomus. The word is:

Wheele

It is to be remembred, that after every motion a reftitution to the first posture is to be commanded in these words; sign were.

In facing you are to returne to the contrary hand, as if the command were to face to the right, in returning you come to the left.

In doubling you must doe the like.

In counternarch likewife, whether you countermarch the whole body, or the parcels thereof, you are to returne by the courtary hand.

After wheeling, there ought to be a facing to the fame hand first before you returne, and then a returning the contrary way about the fame corner file-leader, about whom the motion was intermade. This is to be understood of wheeling the whole body.

In wheeling the front into the flanks, after wheeling performed, the body before returning is to face to the Commander, then to return about the same bringers vp, till all come to be as they were.

In wheeling the flanks into the front, after the wheeling is made, the body is to face likewife to the Commander, then facing about to the right or left hand to return to the first pollure about the two middle file-leaders, as about their center.

His castus artemque repons.

FfNfs.



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